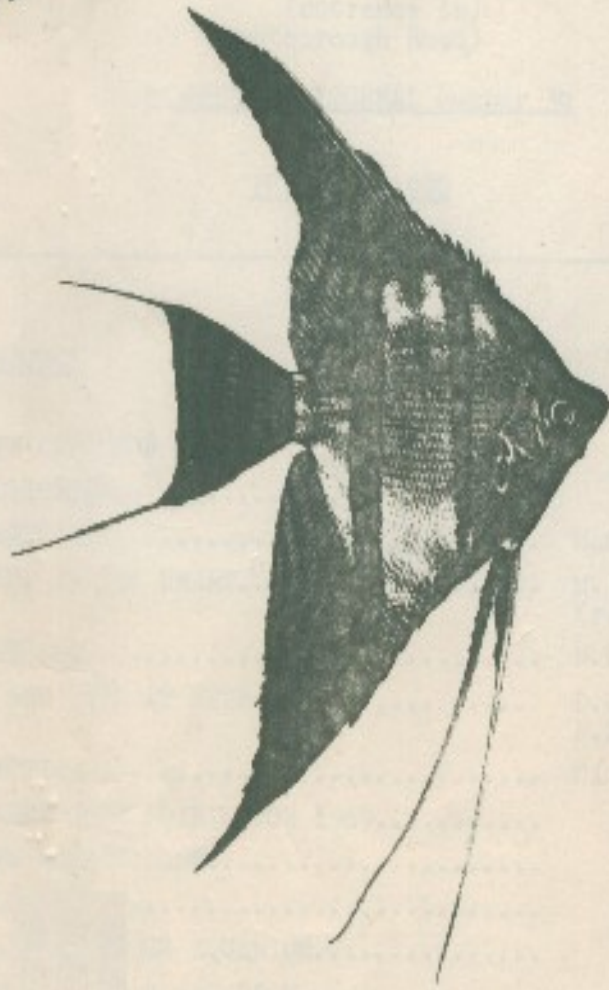


SOUTHEND, LEIGH & DISTRICT



AQUARIST SOCIETY.

founded 1938

CONTACT IN 2010 [Southend, Leigh & District Aquarist Society](#) or [Southend Aquarist](#) for more archived SLADAS JOURNALS or if you have any Journals from the 1940's & '50's or information on the Society before the second World War when we went under the name of Southend Aquarist Society [SLADAS Archives](#)

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third Tuesday in each month at 8,00 pm, at :-

ST ANDREWS HALL
ELECTRIC AVENUE
WESTCLIFF-ON-SEA
ESSEX

(entrance in Electric Avenue)

BI-MONTHLY JOURNAL

Number 30

FEBRUARY 1970

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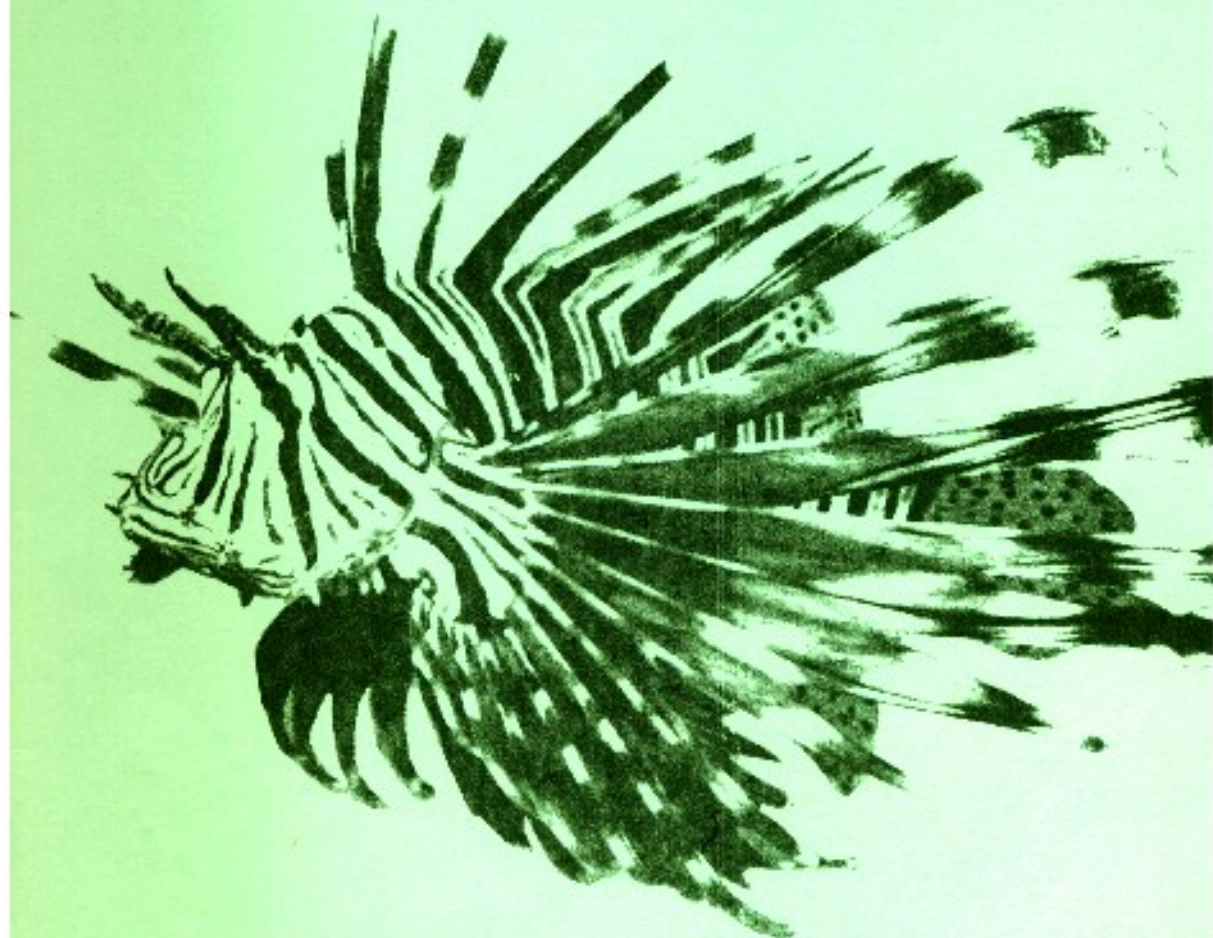
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EDITORIAL

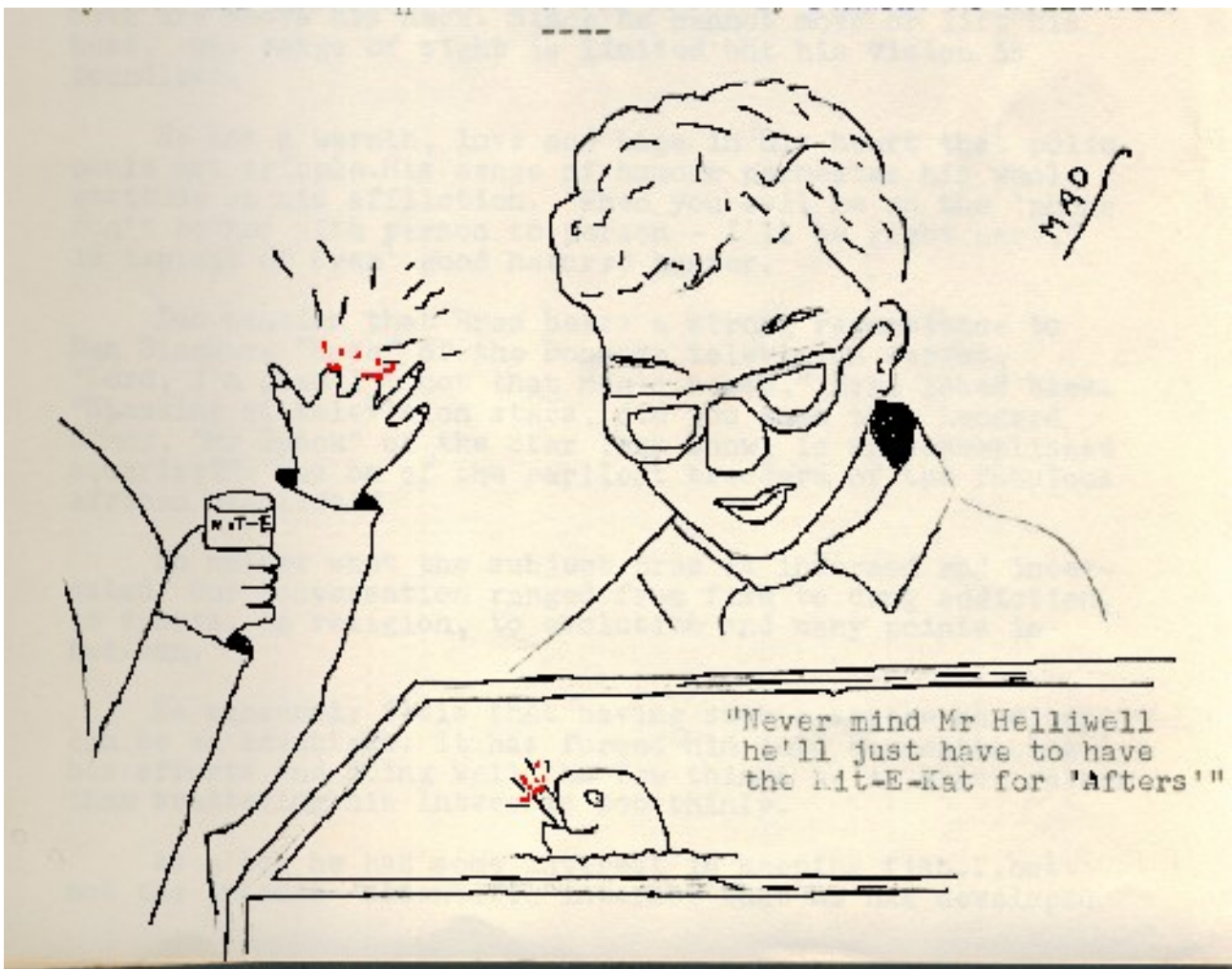
Ray Nield, our Librarian, seems to have been on the receiving end of the sharp pen of the "People"'s columnist Arthur Helliwell recently. I presume that the Sunday paper got the story of Ray and his piranha second-hand from the Evening Echo.

Whether Ray is right or wrong to feed his piranhas live goldfish your editor will not come down on one side or the other for fear of being told to jump off the pier yet again. But we will discuss a few of the other points raised by Mr Helliwell.

First of all Kit-e-Kat is liable to disintegrate in water and foul the whole tank. Uncle Arthur will be forever buying you new fish, Ray ! The piranha is not the most ferocious fish in the world this dubious title belongs rightly to the Barracuda.

Arthur Helliwell hooks a fish and then wonders why it tries to bite him, ever had a fish hook stuck in you Arthur? What sort of jungle shoes were you wearing for the fish to bite through -plimsolls?

We wonder whether Mr Helliwell likes oysters all alive oh !Just a few friendly remarks Mr Helliwell



DEEP IN THE HEART

by Mary & Dan Carson-
Greater City A/S

reprint Modern Aquarium

Texans have a reputation for bragging that everything is bigger and better in their state. One native told us this was a fallacy. "Texans do not brag things really is better in Texas !"

After meeting Texan, Braz Walker of Waco, we would have to agree with him. Two facts about Braz are much bigger and better than anyone we have ever met; his handicap is bigger and his conquest of it is better.

As a young man, just starting in college he was a vigorous athletic youth that loved to hunt and fish. His six foot of height; and muscular build gave him an advantage in competitive school sports.

Most victims of polio are stricken with one type of the disease, in 1952 Braz contracted all three. Since then, he has been completely paralyzed. The only muscles he can move are above his neck. Since he cannot move or lift his head, his range of sight is limited but his vision is boundless,

He has a warmth, love and hope in his heart that polio could not cripple. His sense of humour permeates his whole attitude on his affliction. "When you call me on the 'phone don't bother with person to person ~ I'll be right here," is typical of Braz' good natured banter.

Dan mention that Braz bears a strong resemblance to Dan Blocker, "Hoss" of the Bonanza television series, "Lord, I'm glad I'm not that man's horse," Braz joked back. "Speaking of television stars, did you know that Leonard Nimoy, "Mr Spock"" of the Star Trek Show, is an accomplished aquarist? He was one of the earliest breeders of the fabulous African cichlids "

No matter what the subject Braz is informed and interested. Our conversation ranged from fish to drug addiction, to sports, to religion, to evolution and many points in between.

He sincerely feels that having such a severe handicap can be an advantage. It has forced him into concentrating his efforts and doing well the few things he is able, rather than scattering his interests too thinly.

As a boy he had some interest in keeping fish...but not the intense scientific interest that he has developed

during the seventeen years that he has been confined to bed. He feels fortunate that he can observe a fish for hours at a time. His keen powers of observation have involved him in many scientific experiments.

Dr William A, Krivov, now at the Narcotics Treatment Centre at Lexington, wanted to do a study of the effects of drugs on the body. He consulted with Braz and selected the Electric knife fish for the experiment. The doctor set up a series of tests, injecting drugs into the fish. Braz watched the fish and observed every minute change in their behaviour, giving the doctor detailed reports that enabled him to prove the physical effects of the use of drugs.

Braz is determined to do everything for himself he possibly can. He had been using a dictating machine and his father's secretary to transcribe the articles that he wrote. He heard of a young girl that had polio that was able to type, and made enquiries about getting similar equipment.

When they realized his ability and determination, General Electric sent an engineer to set up the typewriter for Braz. The framework that is attached to the head of his bed has an adjustable plastic panel that can be positioned to just reach the cleft in his chin. About 12 inches away, at the top edge of this panel, is a key-board arranged in an arc, using old telephone relays connected to an Electromatic typewriter that stands beside his bed.

The tool he uses looks very much like a knitting needle with a ring fixed a right angles to one end. With the ring over the end of his tongue, he types one letter at a time by sliding the needle back and forth across the key-board.

He has built up his endurance and can type for three or four hours at a time. His ability to observe completely and report accurately have resulted in some of the finest research in the aquarium field.

His reputation has spread. When ichthyologists at the neighbouring colleges need information, advice or research, they call Braz. He has studied at great depth..reading books propped up on a "hospital bed-side table", turning the pages with the eraser of a pencil that he holds in his mouth.

Braz breathes by one of two methods. He is normally in a chest respirator - a metal structure that would remind you of an old armour breast plate. However, it is difficult for him to talk while the respirator is operating so when he wants to hold a lengthy conversation, he clamps between his teeth, a plastic tube that is connected to an air pump,, This forces air into his lungs, which is expelled

simply by his opening his mouth. He has mastered the rhythm of this flow so that he can talk: with the fluency of an after-dinner speaker, We wondered if our visit would tire him. He assured us, "You'll get tired of listening long before I'll get tired of talking."

In fact Braz is an accomplished after-dinner speaker. He can make occasional trips using a rolling cot in the family station wagon and portable respiration equipment. He has addressed the annual meeting of the Federation of Texas Aquarium Societies and has judged shows and visited public aquariums.

With the aid of his assistant, Johnny Dominguez, to do the "leg-work" ^ he maintains nine tanks in his room - one of them about 175 gallons, containing beautiful specimens of very large members of the orders Characidae, Cichlidae and Siluroidea.

Braz has spawned many varieties, and obtained others when they are young and raised them to maturity. It not only gives him the sense of accomplishment of having raised them, but it enables him to closely observe the myriad changes during growth. Braz only writes about fish he has kept for long periods of time.

He has become a master of electronics -and has used the knowledge in designing many devices to enable him to do things for himself. His ability to raise and observe the fish and to write about the fish needed to be reinforced with another element - pictures, but the doctors felt he was literally "biting off too much". With his indomitable spirit, he set out to alter a camera so he could control it himself with a mouth held shutter.

A tank is set up on his table, the camera positioned at his instructions. Then he watches and waits until he has photographs to exactly illustrate the points he makes in his writings. He feels lucky that he has the time to take hours to get just the right picture. "You people that have to go out to work can't sit around all day just waiting for a fish to pose just where you want him."

One radical change that he did adopt was the mounting of the camera upside down. Since he couldn't raise his head, it was the only way he could view through the lens, "without my beak getting in the way".

The walls of his room are decorated with exquisite pastels of fish that his sister has done for him. Several game fish and a deer head are trophies of his father's that add a most masculine touch. Braz mentioned that he had mounted horns of the first deer he ever shot, but someone commented that alongside his father's trophy, it looked like

Braz had shot the other's baby. The young horns were taken down.

The rest of the walls are covered with citations and awards that he has earned over the years. While all of them are well deserved accomplishments, he feels the most pride for one particular plaque which he verbally pointed out to us. It show five men - four dressed in dinner jackets, obviously young business tycoons', the fifth is Braz in his tee-shirt and respirator..... the Five Outstanding Texans of 1968, awarded by the Jaycees.

His mother came in, "I don't mean to brag, but I'm so proud of him". She handed us a copy of the "100 Out-standing Young Men of America - 1969" Under James Brazelton Walker there is a long list of accomplishments - freelance writer, columnist, editor, professional photographer, designer of mouth operated Dictaphone and tape recorder, "all contributions in spite of below neck paralysis and mechanical breathing equipment".

With his cheerful determination, he has plans to continue writing ten articles a month for aquarium magazines, to keep up with his weekly column for the Waco News-Tribune, and continue his voluminous correspondence. He is developing a theory on the relationship of. the swim-bladder to mouth breathing and wants to do experiment to prove his observations .

He has been gathering material for a book on the historic relationship between man and fish. He has already produced one slide program and although he admits that he had to re-tape it about fifty times before it satisfied him, he has plans for doing another,

Because of his scientific mind, he is fully aware of his physical problems, but he is determined to do all that he can, as well as he can, for as long as he can.

We have been privileged to know a number of handicapped people, some of them both before and after they have become handicapped. We have come to the conclusion that a handicap does not change a personality, and if this is so, Braz would have been tops at anything that he set his mind to, with or without the polio. He is the product of his very fine family, the education and religious background that he received as a young man, and the great State of Texas itself, where fabulous achievement really are the rule rather than the exception.

We are proud to salute Braz as a "Hobby Builder" for his many contributions to the aquarium world, but in addition we must take note of the many lives that he has enriched in the world at large. Anyone who meets Braz Walker must find the experience leaves a warm glow...Deep in the Heart.

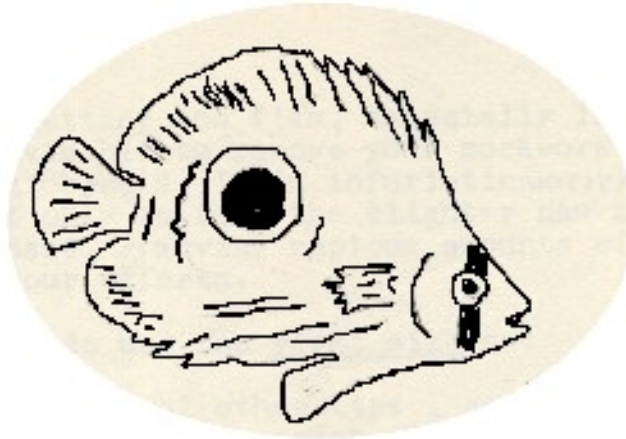
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EYE SPOT

by R.D.Orford.

Once in a while I see a really good fish at a show, and on reflection it's not the size or type of fish, but the colour and condition that has caught my eye. Now we all know how important colour and condition are, but I wonder just how many people realize they are the most important of the lot.

If you think that I am wrong just listen to the judge's remarks when he is summing up after a show. How do we condition our fish for a show? That's a hell of a question, and it would need more space than I have here to answer it ! However, here are a few tips that might help.

- a) You must have a fish that displays a good natural colour in its normal tank. Don't rely on an appearance enhanced by Gro-lux lighting, it may not look the same fish under natural lighting.
- b) The fish should be near to text book size,
- c) It is advisable to get your fish accustomed to being transferred to a show jar as soon as possible, two or three times a week is not too often. A fish that is used to being handled will regain its colour much quicker than one not used to it which becomes frightened by the change.
- d) Do not take a fish that has;- split or bitten fins, scales missing, is fungus infected or diseased in any way, or just plain old and tired. Under F.B.A.S. rules fish should not be full of eggs or young.
- e) In the weeks preceding the show the fish needs to eat as much as possible'. This may mean feeding as much as three or four times a day, with as varied a diet as possible. The tank must be kept scrupulously clean and free of any uneaten food to stop harmful bacteria forming which will

attack the fins.

f) When netting the fish, especially if it is a big one, it is advisable to remove your rock/work or any other free standing objects. It is infuriating to finally net your prize exhibit only to find the blighter has scraped himself during the chase, removing copious amounts of scales, and ruining all your efforts.

g) Please do use the right size net

There are several other tips I could add but as most aquarists have a limited amount of time before a show these seven should prove the most useful to get your fish up to competitive standard.

A NEW LOOK AT HYDRA

by D.W.Roberts F.Z.S.

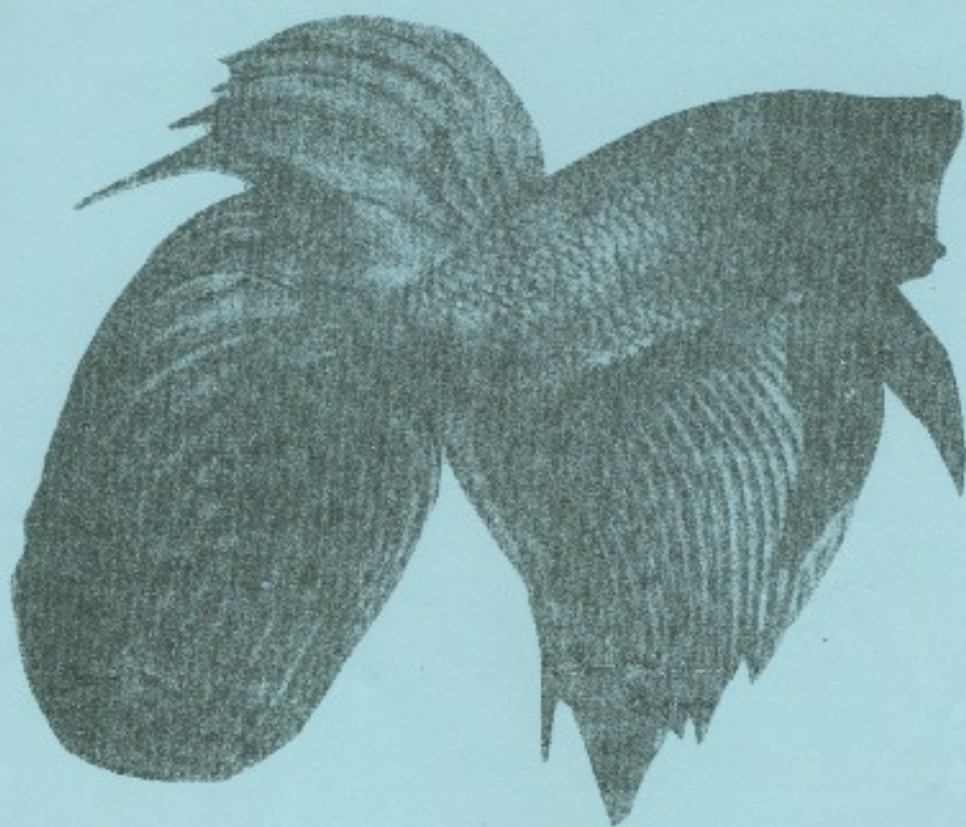
Hydra are thread-like animals, usually green, brown or whitish, about a quarter of an inch long, commonly found on the underside of floating leaves of submerged plants, or on stones in shallow water.

Zoologically, they are freshwater polyps, allied in structure to coral polyps and sea anemones, and are among the most beautiful and curious of aquatic animals. Hydra prey on small fishes, as do water spiders. These creatures together with Water Tigers, Dragonfly larvae- and other enemies get into aquariums with new plants introduced without sterilization, and often with daphnia. In the aquarium they attach themselves to the glass and plants.

If you place a handful of weeds gathered from a fresh water pond in a jar of water and allow it to stand for a while you can test for yourself. Here you will often find hanging from the sides of the jar or the weeds short threads of green, brown or whitish colour. By one end each thread cleaves to the glass or weed, at the other it bears about half a dozen finer threads which hang down in the water if left undisturbed. A touch will cause these to be withdrawn and the creature will take on a shorter and thicker shape.

Water fleas and other small animals have been seen to swim against the fine threads, then drop through the water as though stunned, but to recover and swim away. Some remain sticking to the threads, which shorten drawing the animals towards the end of the main thread, into which they are swallowed.

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It is clear that these objects are living beings; in point of fact each of them is a specimen of the animal known as HYDRA, according to their colour they have been named *Hydra viridis*, *H. fusca*, and *H. grisae*. These three kinds differ in other respects besides colour, but the following applies to all of them.

The body of an Hydra is a hollow cylinder, with a ring of hollow outgrowths or tentacles surrounding an opening or mouth at one end; the other end of the cylinder is closed by a flat basal disc or foot. The mouth is raised upon an oral cone; it leads into the hollow of the cylinder, with which the hollows of the tentacles are continuous, attached to the tentacles are many tiny "trigger hairs" which can be observed under the microscope. These when touched cause the discharge of poisonous threads. Daphnia, fish fry, and other minute organisms coming in contact with the tentacles thus are paralyzed, seized, and carried to the mouth at their base. Microscopic plants are also eaten.

When alarmed Hydra retract and the bunched up bodies with outspread tentacles look like minute green strawberries.

Each animal contains both sexes. Reproduction is either by eggs or, more often, by the growth of little buds along the body, exactly like the parent, which break away, never forming colonies like the corals,

Any fish small enough may fall a victim to the hydra, including trout fry. The main food of hydra consists of water fleas and other small animals. They will not feed unless hungry. If well fed creatures which swim against the tentacles are allowed to escape.

Under test it has been found that if starving the mere smell of food in the neighbourhood is enough to set the tentacle working, but usually they are not put into action until the food has been both smelled and touched. It is not possible to deceive the hydra into swallowing substances such as blotting paper. But blotting paper soaked in beef tea is swallowed when it touches the tentacles.

As to control, there are various methods known to the aquarist. One can remove plants, fishes, and snails if present and raise the temperature of the water to 100°F for at least an hour.

Or evacuate as above, add 22 drops of ammonia to each gallon of water for a thirty five minute bath. Then rinse well, especially the plants, clean the tank with copious amounts of fresh water, and refill with fresh aged water. If the infection is not serious one can also introduce fishes such as the three spot gourami which enjoy this creature. Hydra in your outside pool can be controlled with common newts which have an insatiable appetite for these polyps,

EXOTICA

by MAO

Creamy white and pearl like, glowing, in the light
Sapphire blues and oranges, purply blacks like night
Ruby reds and amethysts
Yellow, gold and green
Where would you imagine all these colours could be seen?
In a jewel box in a boudoir?
In a giant box of paints?
Or a garden?
Or a picture, where the artist scorned restraint?
No ! you'll find them altogether in a very special place
In my fish tank, in the living room,
Beside the fire-place.

TABLE SHOW POSITIONS

Final placings for 1969

D. Edwards.....	42 points	K.Ives.....	4 points
R. Waitings	29 points	E.Booth.....	4 points
T.Clark.....	24 points	R.Bloxham.....	4 points
P.F.Capon.	21 points	K. Adams.....	4 points
D..Cheswright....	18 points	A. Chapman.....	4 points
S.Norris.....	18 points	M.Goodall.....	3 points
R.D.Orford.....	17 points	R. Scott.....	3 points
D.Little.....	14 points	A. Russel.....	3 points
R.Nield.....	10 points	R. Passmore.....	3 points
M.Upton.....	8 points	E.Eloxham.....	3 points
L.Mitchell....	6 points	R. Beaumont.....	2 points
J.Norris,	6 points	A.Bobbin.....	2 points
L.Smith.	5 points	L.Curtis.....	2 points
W.Hadkiss.....	4 points	E. Russel.....	2 points
		C.Allen.....	2 points
		P.Smith....	1 point
		R.Parker,	1 point

NEW WIRING COLOURS

From the first of July this year domestic electrical appliances will have a different colour coding of the wires according to Government regulations. Whether the term domestic covers aquarium equipment is not clear. The new colours will be BROWN for live, blue for neutral and green and yellow stripes for earth (sounds like a bilious barber).

Remember any new electrical gear you buy will have a Brown wire for the live one. Brown for DANGER – doesn't seem right to me! You are not obliged to change any of your existing wiring or equipment under this latest edict.

CLUB NEWS

Meeting December 2

Mike Goodall entertained us this evening with an interesting selection of slides.

Raffle

- 1.. Chocolate Candies... G.W.Knight.
- 2.. Glasses ,James Anderson.
- 3 .. AngelsMrs Chapman.
- 4.., PlatiesHenry Dunmow.

Meeting 18 December

This evening was arranged by Dave Edwards and your editor, to whom all complaints should be forwarded, the rest of the committee can in no way be held responsible, we kept them just as much in the dark about our arrangements as everyone else.

To those of you who were laid low -with the flu' we're sorry you missed out, to those of you who were present we bet you wished you had had the flu'.

What went on? Well read up on the fish *Anableps* and it's peculiarities and then imagine Dave trying to talk about them with unsuccessful attempts to keep a straight face., whilst most of the members roared with laughter in utter disbelief.

Raffle

1. ..Hykro filter, D. Chrswright.
- 2..Pair of *chaperi*,.....Malcolm Upton.
- 3..Tiger Barb,.....K Adams.
- 4...Bag of fry. ,,,Jackie Norris (mossambiques !)

We also staged a "visual" quiz, if thats the word, the winner was Mrs Upton she won a bag of filter floss and when she'd returned to her seat a filter to go with it !

Meeting January 6

An auction always a popular event, and the Hard LUCK table show.

The Hard Luck table show is intended for those members who have not won a first prize card at any of our table shows in the preceding twelve months.

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Hard Luck Table Show

- 1...M.Upton.....Guppy
- 2.. R.Cope.....Khuli
- 3...H.Dunmow.....Guppy
4. .K,AdamsJack Dempsey.

Raffle

- 1...Dave Cheswright....armour glass and Trophix sealer
- 2.. Don King.....PetFish Monthly
- 3...E.Russel.....PctFish Monthly
- 4...N.Brown.....PctFish Monthly
- 5..Tom King,....PctFish Monthly.

The PetFish Monthly copies were donated by PetFish Publications and contained photos of the recent PetFish Aquarium Show including S.L.A.D.A.S.'s tableaux.

Meeting January 20

Bob Passmore gave us a talk on the Cichlids, we were particularly taken with his description of these fishes moving gravel around the tank like a "bulldozer" and female *Tilapia mossambica* rolling their eggs around in their mouths like an "animated cement mixer".

.A.O.V. Cichlid Table Show

- 1.....R.D.Orford.....,.....Oscar.
- 2....K AdamsBrown Acara.
- 3....R..Passmore.....Discus
- 4....D. Little.....Blue acara.

The judge was Dave Edwards.

Raffle

- !....D..Victor.....Bleeding Heart tetras.
2. John King.....two fancy guppies.
- 3....Peter Capon.....30 foot airline tubing.

DONATION OF AQUARIUM TO NAYLAND HOUSE OLD PEOPLES HOME

The aquarium was duly set up at the home the Southend Standard sent a reporter but did not publish anything about the handing over or any of the photos that they took.

Amongst many others .- Mr Donaldson donated assorted fish, Mr Parker painted and renovated the tank, Dave Edwards and Malcolm Upton arranged transportation to the home; other members who donated equipment etc were Bob Orford, Bob Wallings, Lawrence Mitchell, and Dave Cheswright; many other members assisted in many different ways, to all thank you !

AMESBURY AND DISTRICT AQUARIST SOCIETY GRAND NOVEMBER DRAW

1st prize.....£15 cash.....ticket No 0141.....A. Brown Salisbury
2nd prize.....£7/10-.....ticket No 0938.....Lynn Salisbury
3rd prize.....Xmas Hamper.....ticket No 4629.....Mrs Donaghy. Salisbury
4th prize.....Bottle Whiskey..ticket No 1187.....Mr Drake Boscombe Down
5th prize.....Stationery.....ticket NoMr & Mrs Bealing, Gillingham, Dorset
6th prize.....Aquaram lamp...ticket No 4250.....Mrs Jones, Southampton
7th prize.....Bottle sherry.....ticket No04518.....Mrs Afleck, Amesbury
8th prize.....40 cigarettes.....ticket No 4121.....Mr Benson, Fareham

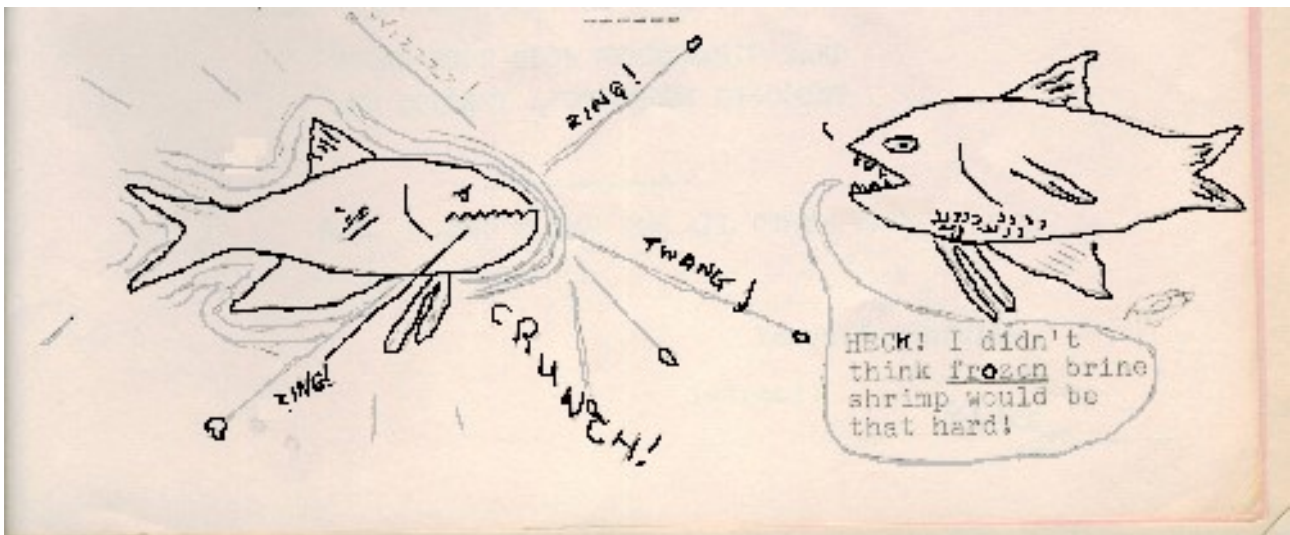
Mike Sainsbury writes thanking S.L.A.D.A.S. for it's support and reporting that Amesbury club funds benefited to the tune of £22.

TABLE SHOW POSITIONS FOR 1970

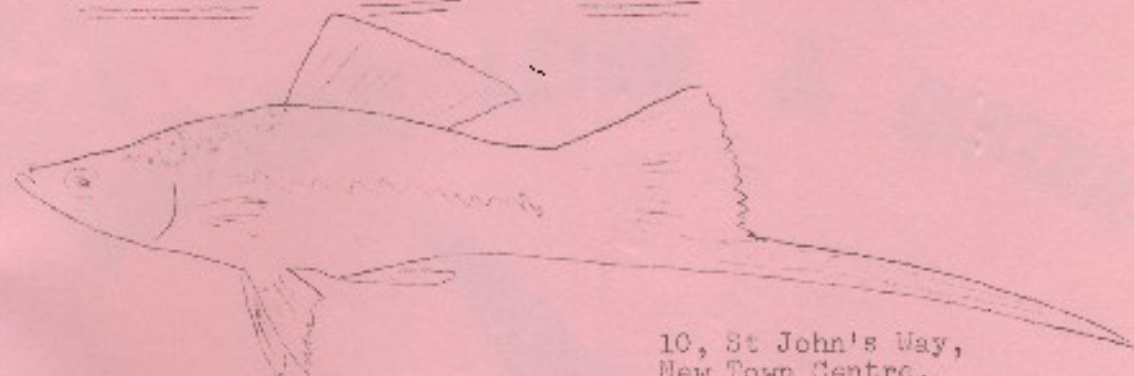
(as of January 20)

K. Adams	4 points
R.D.Orford.....	4 points
M.Upton.,,.....	4 points
R.Cope.....	3 points
H Dunnmow	2 points
R.Passmore,.....	2 points
O, Little.	.1 point

Do not forget our **OPEN SHOW** May 15, at St Andrews Hall, Electric Avenue, Westcliff-On-Sea.
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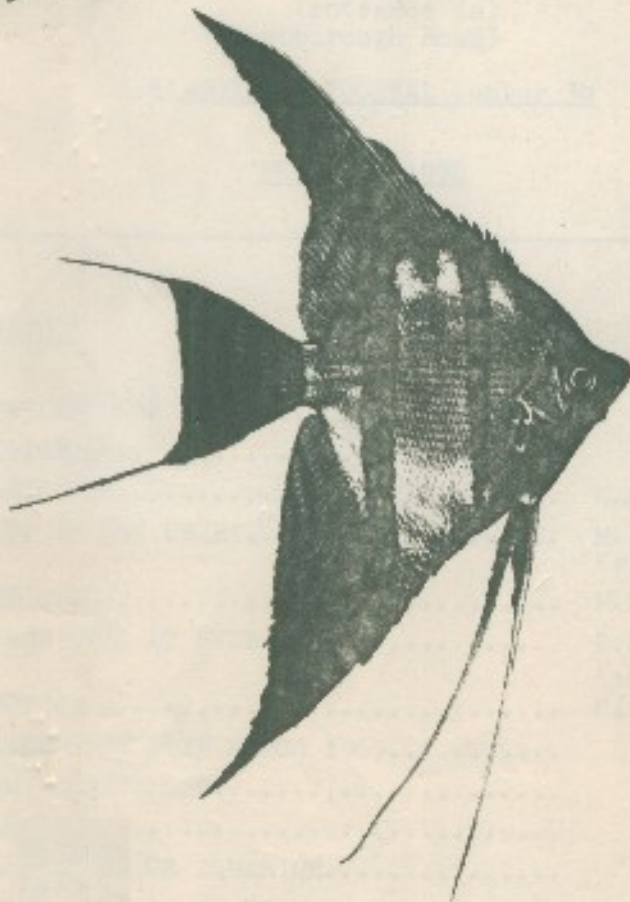
P.S. I ALSO CATER FOR ALL OTHER PETS

Yours faithfully

(signed)

Eddie

SOUTHEND, LEIGH & DISTRICT



AQUARIST SOCIETY.

founded 1938

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third tuesday in each month at 8.00 pm, at:-

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**BI-MONTHLY JOURNAL Number 31
APRIL 1970**

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DON'T FORGET THE SHOW MAY 15

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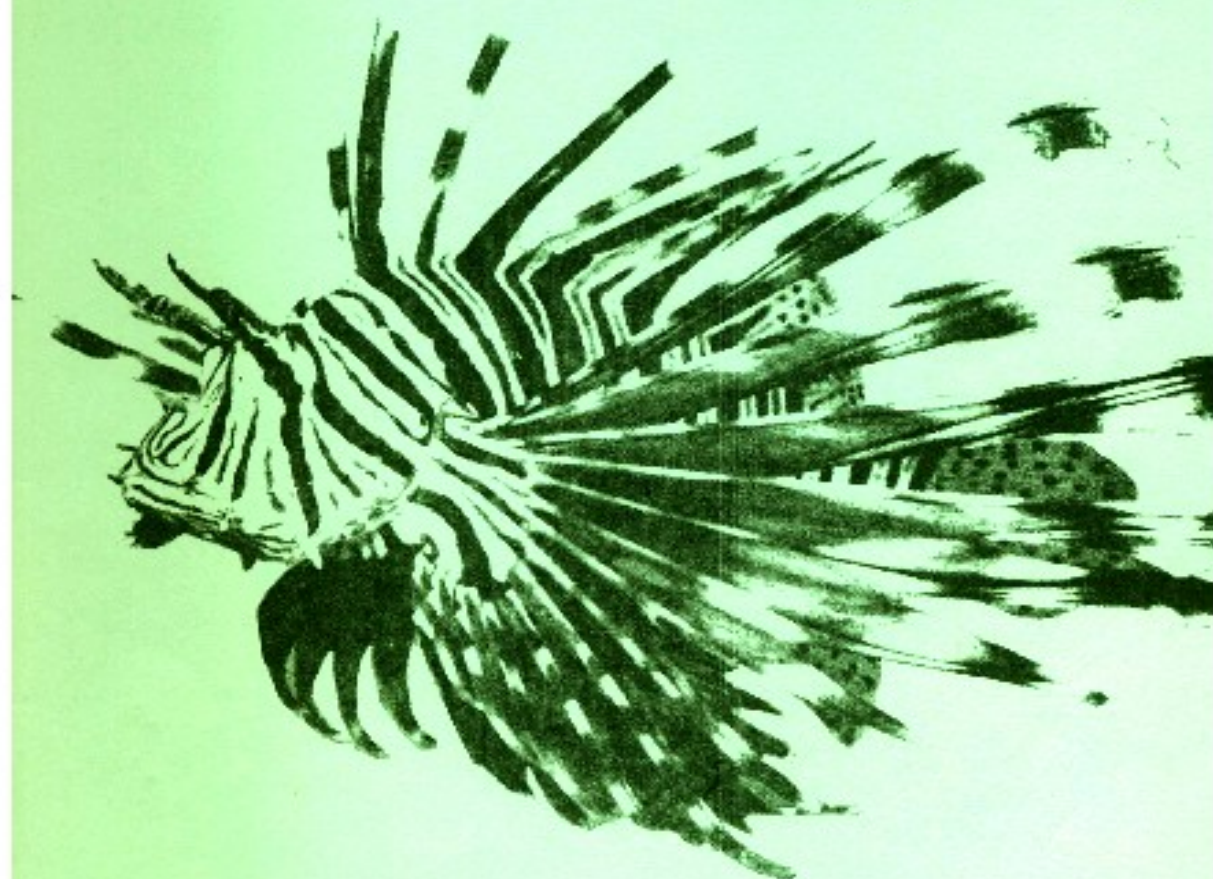
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EDITORIAL

Elsewhere in this JOURNAL Ray Nield suggests that we have to resort to reprints at times to fill our pages. The present editorial policy of this JOURNAL is not to "fill" as many pages as possible but to try and bring members interesting and enlightening articles. If we feel that an article in one of our exchanges is sufficiently interesting we will reprint it; a case in point is the reprint we carried on that incredible aquarist, Braz Walker, in our last issue.

Many of our readers will have noticed that our number of pages varies from issue to issue, this is because we would rather not print a page than fill it with just anything! When we read the exchanges, and we do read everyone of them, every now and again an article strikes us as just too good to be missed by our readers so we reprint it.

This is not to say that the article that we do not reprint is not worth reading - far from it - try asking Ray to lend you a fist-full of the other clubs publications that we receive, you will be surprised at the knowledge they contain

Incidentally Ray reckons that his exchange review column is rubbish - we disagree Ray it is not ! (That should keep him writing.)



LIFE AND LOVE IN THE .AQUARIUM

by D.W. Roberts F.Z.S,

Why and how does a female fish change sex?

If only I knew, for the exact case has not been determined. So far as research extends we know it is not due to disease or any agent or condition which tends to decrease the capacity for hormone secretion, which becomes an immediate factor in sex reversion. Internally there is an actual change from ova-producing to sperm producing organs. Externally the anal fin is transformed into an intromittent organ.

In a swordtail, the commonest aquarium fish to exhibit sex change, the sword is formed from the ventral lobe of the tail-fin and the fish is indistinguishable from a normal male except for the body shape. when in captivity, an old female sometimes takes on secondary male characteristics.

An old female trout will develop the hooked jaw which characterizes the male. A female guppy may develop the colours of the male and even the gonopodium, and in this case the sex glands may contain both ovarian and testicular tissue, and it is possible by suitable crossings that the sex alteration might become total- But primary sex changes are rare.

With the swordtail this has taken place in young specimens and in those that have produced young for over two years.. Mothers may be mated to virgin females and become fathers, and the offspring will exhibit the sex ratio typical of the species.

In Fighting Fish and Paradise fishes complete sex reversion from female to male has occurred.

Occasionally females of other animals such as frogs and toads , also fowl and pigeons change to male.

Over the years there has been a great deal of discussion as to whether live-bearers in the fish world are truly viviparous as are the mammals, or whether the body of the female merely serves as a receptacle or host for the eggs, which develop inside without deriving any benefit from the mother other than protection.

Although the facts vary among different species, of livebearing fishes the majority, if not all, of the Poecillids do nourish the young whilst in the- early stages of development.

During this early development the pericardial membrane is

very extensive and is presumed to be the the main mechanism through which the embryo obtains nourishment from the mother.

Psychology as we know it extends invariably to the aquarium, anger, curiosity, fear, greed, pain, pleasure, jealousy, pugnacity, selfishness, sexual emotion, parental emotion, and social emotion are all to be seen in the aquarium. We might add gratitude, for it is well known that some of the larger fishes appreciate having little fishes pick off their parasites.

All fishes are not as keen as the "wary Trout" but many learn where danger lurks, where food is to be had. where choice resting places exist, what foods are pleasing, and the gestures of the people that feed them. Strangely enough, few fishes learn to avoid the hook !

The psychology of the fish, like it's physiology, indicates that it is at the curliest beginning of the higher vertebrate- life.

Fish memory and educability are limited, but fishes grow accustomed to their environment and are bewildered when it is changed. Many a fish that has done well for years in one aquarium has died soon after transference to another, unless the new one was. more spacious . Some, however, will leave unsatisfactory quarters, and it has been observed in public aquaria that eels and others may forsake one tank and select another, several tanks away, to which they will journey repeatedly if returned to the first tank. It is not impossible that these fish are choosing companions with whose physical emanations they are in harmony.

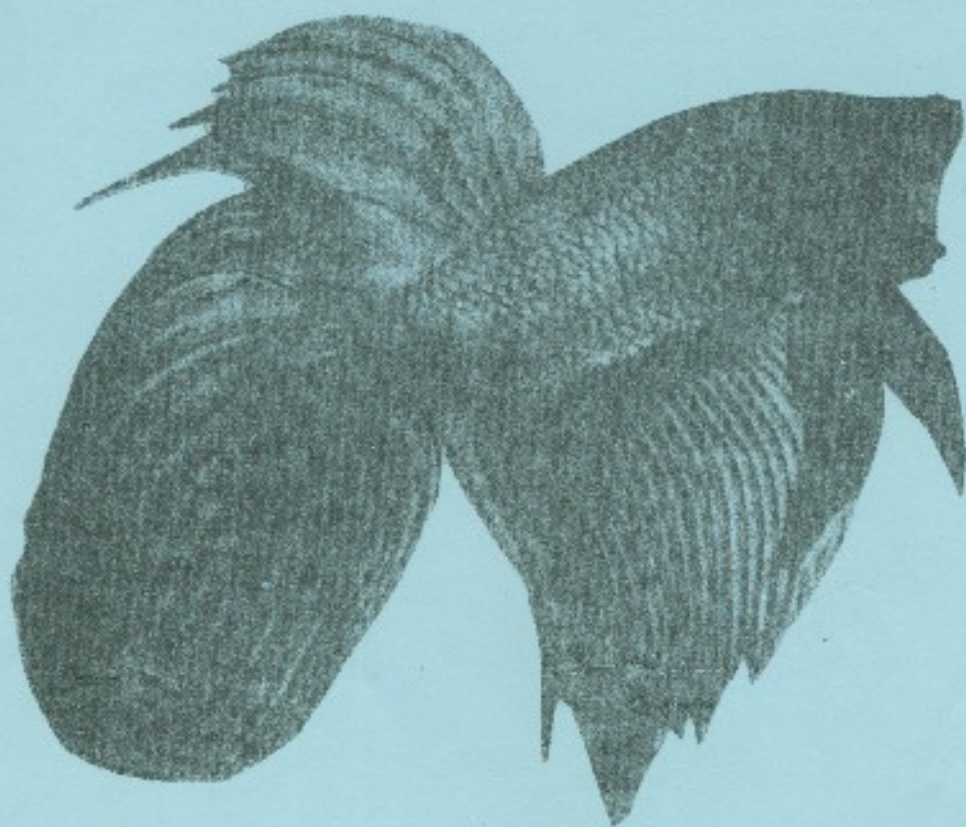
Judged by standards of human psychology, (the only standards we have) we find species of fish that are jealous, fickle, rude, assertive, and grasping.

Amongst the nest builders there is a pronounced sense of proprietorship, Also a masculine superiority complex and an utter inconsistency in encouraging the growth of other lives and then gulping them down.

Feminine drabness and infant cannibalism are almost universal. Fishes will attack companions in distress and some will even murder rivals.



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MICRO-WORM

by N.H.Sellers

Micro -worm as it's name implies is a very small worm growing to approximately a sixteenth of an inch in length, is transparent in appearance and usually only visible to the naked eye in large numbers as a ripple movement on a moist surface or n minute specks falling through the water of a tank. to which they have been introduced.. Given optimal conditions they multiply at a prodigious rate.

It is an ideal first food for livebearers and an excellent post-infusorial food for the fry of most egg-layers. They have, however, the disadvantages (for fishes) of being very active and difficult for some fry to seize and when introduced to a tank immediately sink to the bottom and hence are more suited to bottom feeders.

Contrary to most reports on the subject of smell satisfactory cultures are almost free from odors but one must admit that after some three weeks that the smell is objectionable to say the least - not only to ourselves but also to the worms as by this time reproduction has come to a standstill, many dying in the decomposing media to say nothing of the effect on the unfortunate fishes who are fed . A meal of them.

The answer is, of course, to renew the culture every two weeks a comparatively simple procedure requiring little time.

I have now kept a culture of micro-worm going for some years and have no troubles apart from. the problem, created by the unrequested intrusion of a "spawning" fly which caused me to have to sort out the maggots from time to time – and unfortunately not only from the culture because I fed them to my *kribensis* - they did like them one little bit spitting them out as fast as they picked them up no doubt finding their skins too tough and I had to fish them out of the tank again. Nevertheless, the micro-worms continued to reproduce on the contaminated culture which I eventually managed to free.

It is not so easy to purchase a culture as very few shops stock them, as I found out last year when returning from holiday I found all my cultures dried up. I visited several shops before I met with success.

The requirements for culturing micro-worms are.:-

- 1) a shallow plastic soup or fruit dish about four inches in diameter and one inch deep.
- 2) cover-glass - ordinary square piece of glass a little larger than the diameter of the dish.

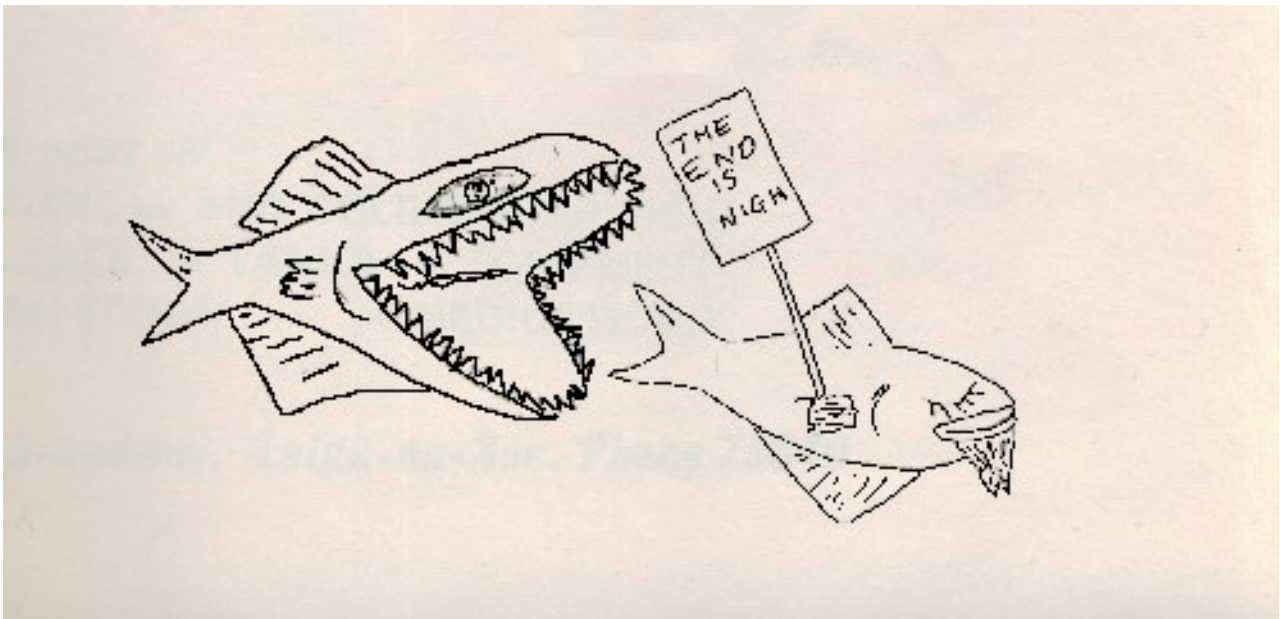
- 3) small block of planed wood two inches by one inch by a quarter inch.
- 4) medium sized artists painting brush -non-metal .to avoid rust if possible.
- 5) supply of "One-Minute" Scots Oats
- 6) small live culture of micro-worm.

Make a thick porridge of one cup of oats to one cup of boiling water in a pan without a lid, cooking for one minute, then cooling to no more than 70°F. It is next layered onto the bottom of the dish to a depth of a quarter of an inch, and the piece of wood pressed flat in the centre of the porridge. The micro-worm starting culture is spread on the exposed area avoiding the wood block. Place the cover glass on top of the dish allowing a small air vent which is later reduced or increased according to the dryness or wetness of the culture - as the worms multiply the mixture becomes more fluid and to avoid loss by "drowning" or drying up of the worms adequate control must be exercised.

Keep the culture dish on top of a tank for warmth. The worms will show their presence after a few days by producing a visible shiny shimmer or ripple over the culture and will commence to crawl over the moist surface of the block of wood, from which they can be collected on the brush and rinsed off into the aquarium to the delight of it's occupants.

Future cultures are made by skimming of the rippling surface and using this to inoculate a new media.

Micro-worm are a very cheap, reliable^ and easily produced live food available at any time of the year,



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EXCHANGE REVIEWS

by R. Nield

I shall start my reviews on a sour note. I am a little disappointed that so many of the magazines reviewed have had to resort to filling their empty pages -with so many reprints. (as I am sure our S.L.A.D.A.S. JOURNAL has had to do at times It does seem a great pity that so few club members will put pen to paper.(Probably the greatest offender is writing this rubbish),

Now to the job requested of me - the Exchange Reviews.

PetFish Monthly January 1970 contains a very interesting article by Rudolf Zukal ("translated by F.Marsh) titled "You Can Have Plants with this Cichlid" This Czech author gives his reports and experiences on the breeding and keeping of *Aequidens curviceps.*, a colourful and peaceful cichlid, with some very good photographs of the spawning.

AQUA CHAT (October '69) contains an article entitled "Bettas" , a reprint from the **CALQUARIUM**. Jerry Winks tells how he caught "Betta Disease" (which I think our editor has got, it's the only explanation) Jerry explains how he bred his Betta *splendens* in melted snow water, and in the end had a large successful spawning, and to quote "the main problem was obtaining jam jars to separate the young fighters

ANCHOR (San Francisco A/S) for September '69 contains "The Millions Fish, *Poecilia reticulata*" by Rodger.D. Barroughs an article which goes very extensively into the make-up of our old friend - the Guppy. Anyone who is interested in breed good guppies will find this article a great help.

THE AQUARIST January '70; "Filtration in the Marine Aquarium" by Graham. F. Cox. describes an under gravel filtration system with an amazing turn-over rate, up to six hundred gallons an hour (depending on the size of the tank). He goes into. lengthy and very descriptive method of constructing this filter and I must admit that it seems very easy and quick to make. For anyone considering a marine aquarium, I would advise them to read this article carefully before purchasing any other type of filter.

All the above magazines and many more besides from clubs around the world are available from the library.

TROPICAL FISH HOBBYIST versus THE AQUARIUM

by P.F.Capon-

For the interest of our readers in a mad moment or rather in a mad few hours I sat down and really examined two of the- American "slick" magazines that are available in this country. At random I selected a copy of T.F.H. and a copy of the Aquarium and noted the number of adverts , photos etc

TROPICAL FISH HOBBYIST March '69**THE AQUARIUM July '69**

Price in th UK 3/-
 No of pages per penny 1.52
 No of pages per cent 1.37

Price in the U.K. 4/2d
 N° of pages per penny 1.23
 N° of pages per cent 1.23

Total Number of pages with cover 100

N° of pages with cover 80

Adverts**Adverts**

TFH/Bader/Miracle 26 pages
 Other full page ads 11 pages
 Smaller ads 8¼ pages
 (N.B. TFH,Bader & Miracle
 are part of TFH Inc.)

Own organization 3 pages
 Other full page 10 pages
 Smaller ads 5¾ pages

PHOTOS**PHOTOS**

Colour cover
 Colour full page zero
 Colour half page or less 18
 Black & white 22
 Cartoons 2
 Other illustrations zero
 Total illustrations 43
 Approx words per page 420
 Editorial pages 54¾

Colour cover
 Colour full page 6
 Colour half page or less 6
 Black & White 11
 Cartoons (incl Tetra ad) 2
 Other illustrations 10
 Total illustrations 35
 Approx words per page 430
 Editorial pages 61¼

Photos of Mr Axelrod and the Vice President
 of Miracle Products are included,
 none of the contributors.

No Photos of Al Klee or his staff
 but photos of contributor are included

Authors in this issue:-

Rodney Jonklaas, R.L. Herman
 F.T. Kerr, C. Ash
 H. Axelrod
 D. Wasserman
 Rudolf Zukal
 M. J. Rozelli
 Paul Hahnel
 Alfred Schultz

Braz Walker,
 J. Trusso
 William A. Tomey
 Michael Bookbinder
 G.Y Takeshita
 Helen Simkatis
 Al Klee
 Philip S. Franco

The photos in T.F.H. are what we have come to expect, but personally I think those in the Aquarium are far superior, for instance, close-ups are a feature notable examples being those of the teeth in the throat of an Emperor tetra, and incredible micro photos of the spore husks and leaves of the Java moss.

Since at the present rate of exchange the cent is worth a penny we buy the aquarium in the U.K. at exactly the same price as American aquarists BUT the T.F.H. is cheaper in the U.K than the U.S.!

If presented with a choice I would pick the Aquarium every time for it contains more information and does not ram the names of firms, in Axelrods organization down my throat when I am reading an article on how to breed a certain fish etc. T.F.H. always seems to give the impression that you can't breed fish unless the parents are fed on Miracles Freeze Dried foods and kept in a Metaframe aquarium etc etc.

PROBLEMS OF THE LONDON ZOO AQUARIUM

by D.R . Roberts F.Z.S.

The tremendous wave of popularity for the aquarium dates from the opening of London Zoo's Aquarium in 1924.

This was the pioneer aquarium on modern lines, which set the fashion for zoos the world over. All major problems of designing and running a large modern aquarium were solved at London Zoo.

Originally the aquarium had been based on the theory of balance, but although theoretically sound, the balanced aquarium proved in practice to be extremely difficult to maintain. Plants required plenty of sunshine or they died, while too much sunshine proved fatal! to the fish. Either there were too many plants or too many fishes. Frequent changes of water, consequently needed, also seemed to upset the livestock.

It became apparent that a. balanced aquarium had severe limitations, so attention was turned to the possibility of substituting artificial control of water composition.

With the rapid growth of marine biology, knowledge was accumulated about the needs of aquatic animals, and it was realized that the sea provided then with a constant environment, in which the oxygen content, the proportions of the various salts essential to their well-being, and even the temperature, were remarkably constant

The maintenance of satisfactory water conditions is not now left to the hazards of biological balance. Instead the composition and temperature of the water is carefully controlled by artificial means. All aquatic animals are very sensitive to changes in temperature and composition of the water in which they live. Consequently , when a new supply of water arrives at the zoo it is only introduced into the circulation gradually.

Temperature control of the water poses different problems in the three different halls. The tropical tanks have to be maintained at a fairly high temperature, which involves the installation of thermostatically controlled heater. In the sea water hall the problem is to keep the water cool enough during the summer months. This is achieved by passing the circulating water through coolers. Even so a temperature low enough for such coldwater fish as cod, whiting and mackerel, cannot be satisfactorily maintained. These fish ,therefore, cannot be kept in the aquarium itself.

None of the sea-water tanks contain plants, and where grown in freshwater tanks their purpose is decorative rather than functional.

The background of rock constructed in each tank serves a dual purpose. It enhances the exhibition value of the tanks and also provides the inhabitants with hiding places where they can retire from the lights and the gaze of the public. Fish, like other animals like some darkened retiring place on occasion.

The technical success of the aquarium is due to various installations by which the water is kept clean, aerated, and at a suitable temperature .

Each of the three halls in the building, forms an independent unit, but the arrangement in all three are essentially similar. The water in each hall is continually circulating through a complex series of tanks, reservoirs, and filter beds; all tanks being on the same circuit. Beneath the floor of the hall there is a large reservoir, that beneath the sea-water hall holding some 120,000 gallons. From these reservoirs the water is pumped to a much smaller supply tank in one .of the peaks of the Mappin Terraces. A main supply pipe drops from this tank to an horizontal pipe running, above all the exhibition tanks in the circuit. From this pipe in turn each tank receives it's supply of water from a small branch pipe which ends in a small fine jet an inch or two above the water level in each tank. The height of the supply tank above these jets creates a considerable head of water, which enters the tank under pressure and so carries with it a stream of bubbles which help to aerate the water in the tank.

Near the top of each tank there is an overflow, the water

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from which passes through a series of filter beds down to the reservoir below.

The fish in the tanks, are thus are living in only a small proportion of a very large body of water, which makes it possible to ensure purity and adequate aeration, which means both a high concentration of oxygen and a low concentration of carbon dioxide. This latter gas being the more important of the two.

(To be continued)

CLUB NEWS

Meeting February 3

TABLE SHOWS

Juniors Swordtails & Platys

- 1.,I. King
2. I .King
- 3 ..D.Victor

Platys

- 1...B. Dunn
- 2o..M. Upton.
- 3...R. Nield.
- 4...R.D. Orford.

Fighters

- 1.. ..R. Waitings.
- 2.....P.F. Capon.
- 3 ...P.F. Capon.
- 4.....P.F. Capon.

The raffle winners were:-

- 1..Bob Passmore.... pair of platies.
- 2...D. Little.....Hykro filter.

Bob put his prize up f for a re-draw when Brian Dunn won it. Brian put it in for a re-draw, Dave Edwards ticket came out of the hat, Dave put them in for yet another draw and finally D. Little won them. We thought those fish would have to be left at the police station as vagrants !

The raffle was won by:-

- 1...Mr Box. pair of nigger barbs.
2. .Malcolm Upton.... pair of clown barbs
- 3...J. Clark... bottom filter
- 4...Norman Brown..... a *tomasi* and *nannacara*.

INTER-CLUB MEETING AT THURROCK March 9

BARBS

- 1...D. Edwards (best fish in show) Southend
2. .D.Edwards.....Southend
- 3...K. Baker.....East London.
4. .N. Latham.....Billericay

FIGHTERS

- 1...N. CorbyEast London.
2. . D. Durrant..... Thurrock
- 3...P.F. Capon.....Southend
- 4....D. Durrant..... Thurrock

PLATYS

- 1...S. Hendle-.....Thurrock
- 2...K.Appleyard. ,,.....Thurrock
- 3...G. Eaton.....Thurrock
- 4...K Baker...East London.

The judge was Mr Jessop of the F.B.A.S. Dave Edwards turned up early at Thurrock just in time to hear that Mr Jessop had had a break-down in Kent, Dave rushed to the rescue and ferried our judge to Thurrock.

The points to the clubs were:-

Thurrock 14, Southend 9; East London 7, and Billericay 1.

This is Billericay's first time in the Inter-club competition and we wish them well.

COMMITTEE MEETING REPORTS

Meeting December 17 at 20, Brocksford Ave, Rayleigh. Present were:-

President, Treasurer, Secretary, Bob Passmore, Ted Bloxham, Ray Bloxham, Steve Norris, Ray Nield, Don Finch, Peter Capon, Lawrence Mitchell, and visitor Malcolm Upton, apologies from Bob Orford

Bob Passmore reported that the trophy from the F.B.A.S for the 1969 Open Show should arrive no later than Jan 19th

The date for the presentation of the tank to Nayland House was fixed. The drafting of the new club rules was in hand and would incorporate the Home Furnished aquarium Rules which Don Finch presented to the committee for approval. The President informed us that the car stickers were now ready thanks to the efforts of Miss E. Russel and Mr R. Cope. D. Finch was requested to look into medals for firsts in table shows and to enquire about replicas for the Home Furnished aquarium and Highest Points trophies,

Meeting January 28, at 12, Merrivale, Benflect, present were:-

President, Treasurer, Secretary, Bob Passmore, Don Finch, Lawrence Mitchell, Steve Norris, Ray Bloxham, Ted Bloxham, Ray Nield, and Peter Capon, apologies from Bob Orford and Bob Wallings; Host Malcolm Upton.

Don Finch confirmed that copies of the table show rules would be available at the next club meeting. It was decided to have another key cut to the hall. Representatives to meet Witham, Blackwater and Billericay to discuss the Inter-club Quiz were elected as Jackie Norris, Ray Bloxham, and Dave Edwards. The roster for Nayland House tank was compiled. Steve Norris mentioned that he would like to see a club diary the President agreed ID make enquiries. It was decided to award medals for firsts in table shows (not inter-club) and any dozen firsts should entitle the winner to have these set on a shield. Meeting adjourned at 10.55 pm.

TABLE SHOW POSITIONS

(as of 17/3/70)

B. Dunn.....13 points	H. Dunmow.....4points
P.F. Capon.....12 points	R. Passmore.....4 points
M. Upton..... 9 points	D. Little.....4 points
D. Edwards.....7 points	R. Nield.....4 points
R. Wallings.....7 points	T. Clark.....4 points
R.D. Orford.....5 points	D. Cheswright....4 points
K. Adams..... 4 points ..	Mrs Finch.....4 points
R. Cope.....3 points	

JUNIOR TAPLE SHOW POSITIONS

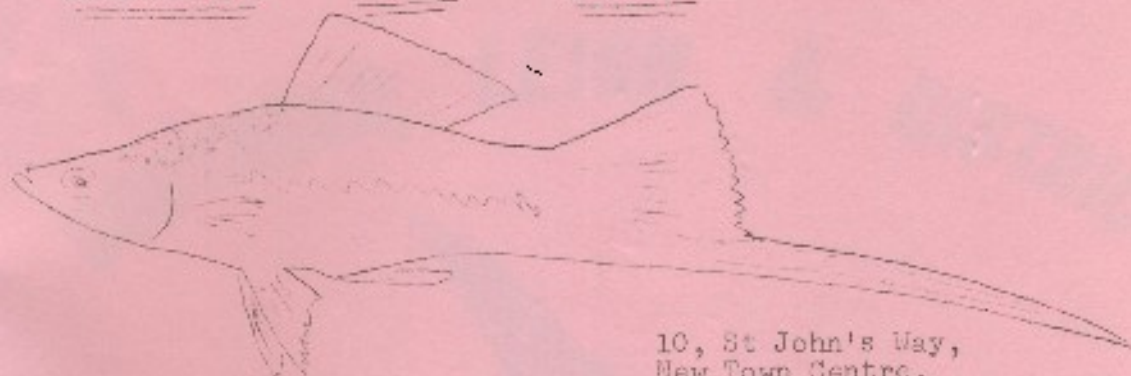
(as of 17/3/70)

I.King.....7 points
D.Victor.....7 points
Master Chapman..4 points

THE SHOW AND YOU

A successful Open Show depends on all club members ask Malcolm Upton how you can help - don't forget May 15 at our normal meeting place. The success of the Show rests with **YOU !**

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Eddie

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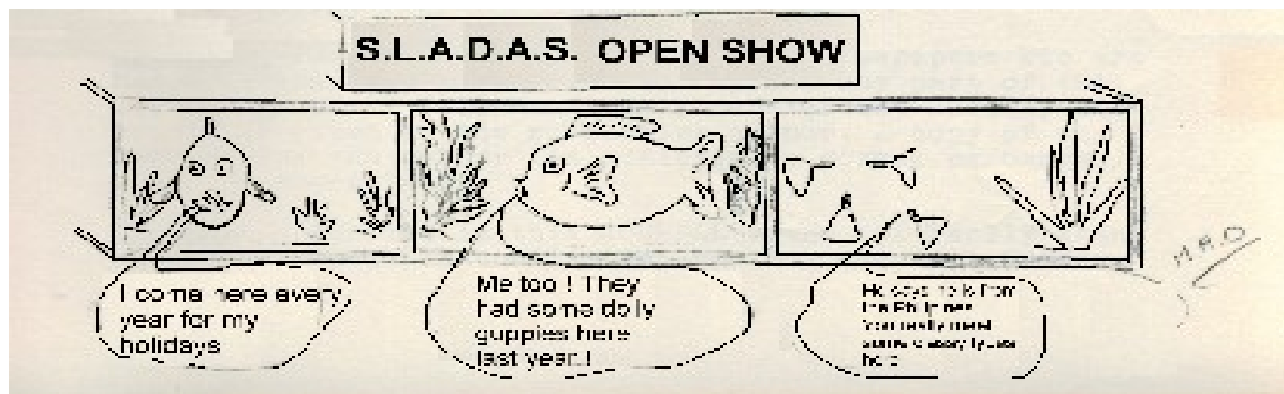
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**BI-MONTHLY JOURNAL Number; 32
MAY 1970
OPEN SHOW ISSUE**

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TRADERS advertise in this JOURNAL reach the really keen aquarists; rates on application to the assistant Editor.

EDITORIAL

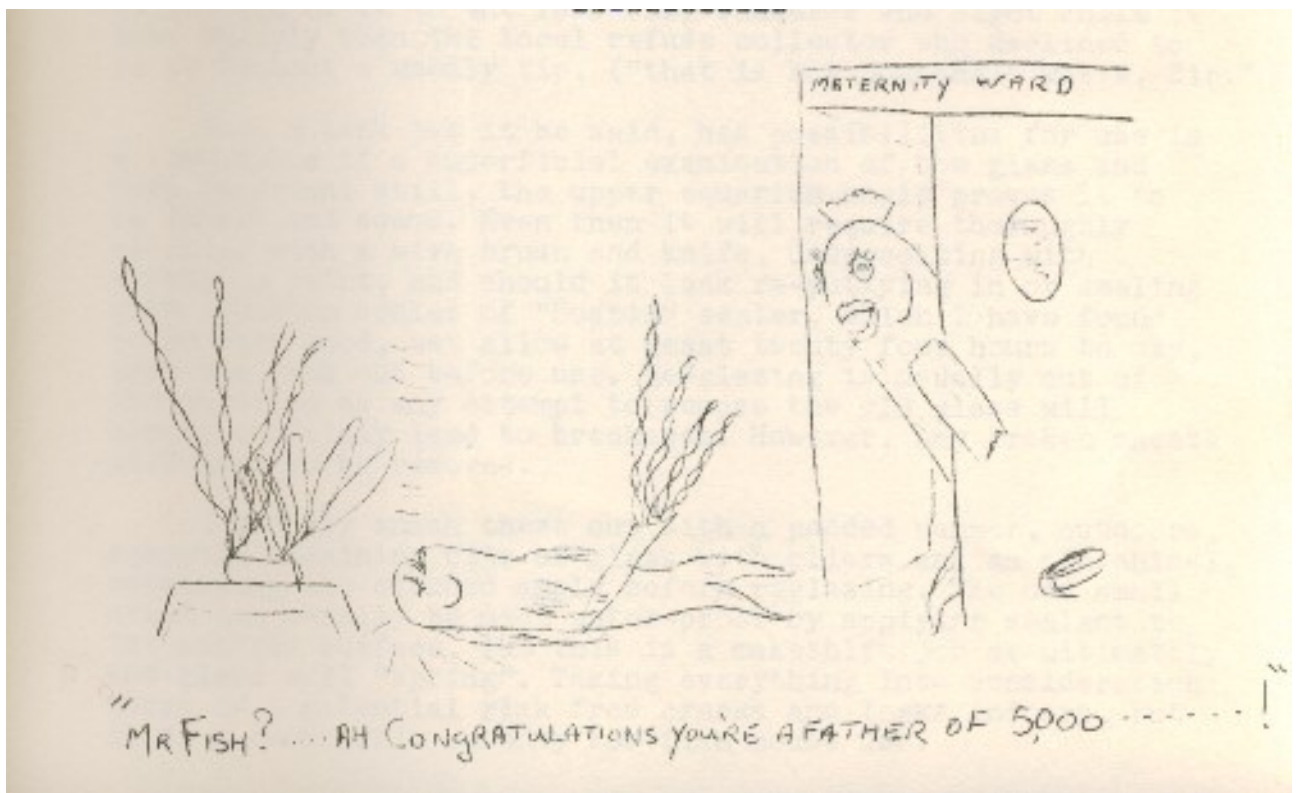
First of all we would like to welcome all the visitors to our Open Show. Please .-Ask our stewards if you have any fish keeping problems they are there to help you. We hope your visit will be both entertaining and instructive.

Should you wish to join our Society please feel free to come along to any of our meetings to see what goes on !

This Journal is now read by aquarists in many parts of the world and because of this two large American Corporations have been in contact with us. The first is Jonco manufacturing Co of California who manufacture "Wonder Water" which enables one to maintain marine and fresh water fishes in the same water - yes that's what we said in the same water! This will be discussed in our next issue of the JOURNAL. We know that their claims sound incredible but they are true !

The other firm is Miracle Pet Products Inc who are sending us a dozen bottles of their "Clear-Ich" remedy for our evaluation and comments. They are sending a dozen free samples of this product so that we will require members who will be willing to test this product and. report on it's effectiveness in their own aquaria. Naturally we will publish members results in the Journal in addition to informing the manufacturers.

These American firms recognize S.L.A.D.A.S, think how the Society can help you to enjoy your fish . keeping even more !



TANK TALK

by N.Sellers.

Perhaps the first thing that we consider as newcomers to fishkeeping is the purchase of a tank or aquarium. Much discussion and thought will be given to the perplexities created by the manifold shapes sizes, colours, materials and this and that disadvantage or advantage in a given situation.

After making what we considered to be the ideal decision many of us were often faced sooner or later with a problem, sometimes not easily resolved, we did not think of it at the outset.

The following notes will perhaps be of assistance in making the choice which must of course depend largely upon ones personal preferences and finances and inevitably these will lead to the acceptance of some limitations in the set-up.

The "Secondhand" Aquarium (angle iron)

First of all a few words of caution to those of us tempted by the gift of an old tank from a neighbour who has had it standing in the garden for many years and is anxious to get rid of it to the less wary wanderer who might shift it more cheaply than the local refuse collector who declined to do so without a goodly tip, ("that is not household waste, Sir.")

Such a tank let it be said, has possibilities for use in a fish-house if a superficial examination of the glass and more important still, the upper aquarium angle proves it to be intact and sound. Even then it will require thoroughly cleaning with a wire brush and knife, undercoating with aluminium paint, and should it leak re-puttying in or sealing with aquarium sealer of "Bostic" sealer, which I have found to be very good, but allow at least twenty four hours to dry, wash the tank out before use. Re-glazing is usually out of the question as any attempt to remove the old glass will almost certainly lead to breakages. However, any broken sheets will have to be removed.

I usually smash these out with a padded hammer, outdoors, removing remaining bits of glass with pliers and an old chisel, repainting the cleaned angle before re glazing. The odd small crack can usually be made water-proof by applying sealant to the outside surface, but this is a makeshift job as ultimately the glass will "spring". Taking everything into consideration there is a potential risk from cracks and leaks indoors, but it is a reasonable economy for fish house use.

Incidentally, when re glazing, use glass of a similar thickness to the original and aquarium or "metal casement" putty only. If ordinary putty is used a coat of sealant will be necessary as there is a tendency for it to erode away and dissolve in the aquarium water - it is not poisonous but will obviously lead to leaking and the formation of dirt pockets.

The putty should be soft but not so much so as to stick. to the hands, nor so hard. as to make it difficult to press the glass sheets into position.

With use and aging the angle-iron tank tends to suffer from distortion, undoubtedly aggravated by mishandling, but normally occasioned by actual stress under the continuous weight of the water. The glass is also subject to stress sometimes being visibly bowed with the pressure of the water. Rust and gravel get into the seams tending to produce chipping and cracks; the latter being, accelerated by expansion and contraction of the frame with heat and cold, scouring of the glass with cleaning implements, faulty glazing, hardened putty, the dropping of rocks onto the bottom glass, vibration, and hot water.

TYPES OF AQUARIUM

1) ALL GLASS

These are of moulded design, of small size - up to about 12 X 8 X 8 , are easily broken if knocked, give a distorted view of contents and are relatively expensive to buy in relation to their size. Advantages are that they are more easily cleaned for use as breeding tanks for problem fish such as neons. They are too small for use as home aquaria.

2) PRESSED STEEL FRAMED AQUARIA

These are cheaper than all glass, useful for breeding, and available in sizes up to 12 X 8 X 8. There is a tendency to distortion and leaking when moved whilst filled with water. The upper angles rapidly rust away if not occasionally given a coat of paint.

3) ANGLE IRON FRAMED

These are perhaps the oldest and undoubtedly the most popular of all types of aquaria available today having stood the test of time. They conform to most requirements (except contact with salt or sea water) being available in an infinite number of sizes and shapes, e.g. rectangular, square, triangular and bow fronted, plain or ornamental.

They are comparatively easy to service and to ensure a long life an occasional coat of paint is all that is required.

They are normally constructed of P' X 1" x i" angle which is carefully cut to size and welded together to produce a distortion free structure with all welds filed flat both inside and out. The frames are either plated, painted, stove enameled, or plastic coated - the latter being suitable for marine aquaria provided that there is no break in the coating.

It is possible for almost any club member- to construct his own angle iron aquaria provided he doesn't mind the rather messy job.- a garden shed is a necessity here - one cannot get away with putty on the sitting-room carpet.

For those who would like to have a go would suggest, as I have done, the purchase of a tank frame from one of the specialist firms advertising in the aquarist journals, (a 24 X 12 X 12 frame costs 21/6). These are finished painted and ready for glazing. Next procure the glass, cut to size, from a local glass merchant - it is in measuring that the major problem lies- one starts with the inside bottom measurements allowing $\frac{1}{8}$ inch each way for putty and expansion, then measure the glass for the front and back - inside length less $\frac{1}{8}$ inch allowance, vertical inside height less base thickness, (get , - plate for the base if possible - green or wired glass is usually cheaper than clear), less $\frac{1}{8}$ allowance. (Order of fitting - base first, then front and back, then ends). Now measure ends - same height as front and back sheets , width inside frame measurement less two glass thicknesses ,less two $\frac{1}{8}$ allowances.

Three pounds of metal casement putty or aquarium putty are required for a twenty-four by twelve by twelve tank- cost 2/- per pound (much cheaper in 28lb tins.) I have found 32 oz glass adequate for 24" tank uprights, it costs about 2/10 per square foot. Total cost of materials for a 24" tank is in the region of 50/-.

Norman will continue this article in our next issue discussing other types of tank construction.

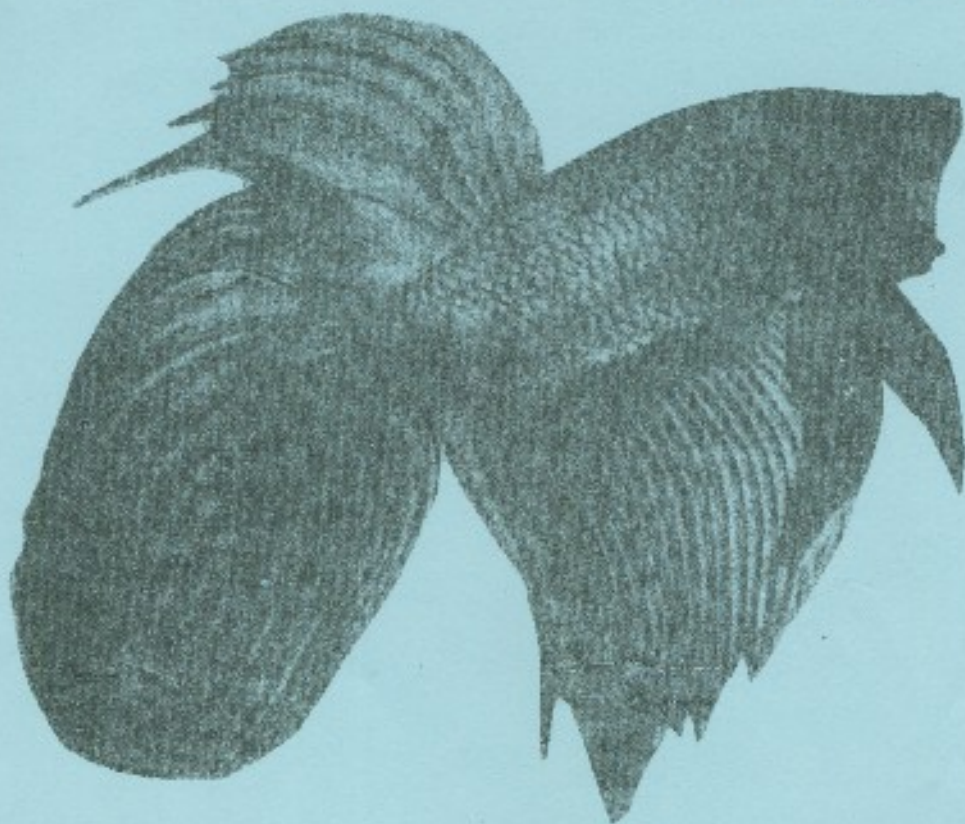
RED ANGELS

P.F.Capon.

In this JOURNAL for May last year (Number 26) under the title of "Marble .angels and Beyond" I forecast that we would soon be seeing yellow angels and even other colours. Almost at the moment of publication yellow angels were released onto the market in the States. Now I learn from the American Cichlid Association that a RED ANGEL has been developed.

Here's a breeding project for readers to try - I wonder who will be the first to breed yellow or red angels with black fins — Wagtail- Angels: !

The Tropical Shop



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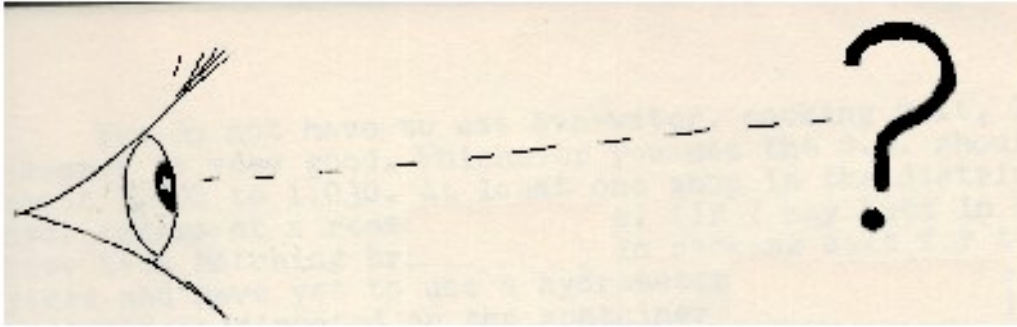
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EYE SPOT

by R.D. Orford.

Spring is here at last, and with it comes the breeding season. Yes I I know you can breed all the year round with a lot of fish but I always wait until the spring, mainly because live food, infusoria and additional sunlight make things a lot easier.

With the fry coming along the problem of food also presents itself. For those you have never tried rearing fry before finding suitable food can be a problem.

For egglayers I use either Liquifry or egg yolk, followed by brine shrimp and then onto grated fresh to foods and live foods such as daphnia, cyclops and tubifex. They should be able to take some flake feed by now as well.

Starting with egg yolk, place a piece of hard boiled yolk the size of a marble into piece of tightly woven cloth; an handkerchief will do, twist the cloth until you get a ball where the egg is, and lower this into the tank squeezing it gently. This should release a milky white cloud of food, don't overdo it, a little and often is the rule, it is an ideal first food for small fry such as chequer barbs , and dwarf and thick-lip gouramis.

Liquifry is much the same as egg yolk but is much easier to use, also it has added vitamins, never-the-less, one club member uses egg yolk all the time for feeding fry, and manages to produce some of the best fish in the club. It was he whom put me onto it.

Next comes brine shrimp. This puts weight onto a baby fish better than anything I know. My method is to fill one large sweet jar with water from the estuary, add about one mustard spoonful of brine shrimp eggs and stand in a warm place with an airline babbling gently. A fish house with space heating is ideal but a room temperature of 65°F should be sufficient, kept at a temperature below 65°F you will not get a very good hatching. I do not recommend floating a jar full of seawater in a tank containing fish because as soon as your back is turned it will probably sink. Unlikely ! Maybe, but I speak from the experience of two such disasters. If you really can not find anywhere else to keep them warm put the jar in your quarantine tank and fix up a heater and thermostat, but do wash the tank and fittings thoroughly afterwards .

You do not have to use sea-water, cooking salt, I am assured is very good. Whichever you use the S.G. should be about 1.020 to 1.030. At least one shop in the district sells hydrometers at a reasonable price. (If I may butt in Bob, I have been hatching brine shrimp in cooking salt for twenty years and have yet to use a hydrometer, I simply make up the salt mix as directed on the container of the eggs, Editor.)

Micro-worms and pondered dry food come next but I will not elaborate on the worms as N.H. Sellers did an article on them in the last issue of this JOURNAL. Next comes grindal worm, white worm, daphnia, small dried food and veil chopped tubifex.

Your fry are now young fish and ready for a normal diet and in turn will soon be ready to produce fry of their own.

PROBLEMS OF THE LONDON ZOO AQUARIUM

by D.W.Roberts. F.Z.S.
(continued from our last issue)

The London Zoo Aquarium occupies the space beneath the hills of the Mappin Terraces, and is in the form of a wide corridor following the curvature of the terraces. From the entrance hall the public pass into a darkened central passage that runs the length of the building, and which is divided into three distinct halls

The walls are lined with exhibition tanks which are brightly illuminated from above.

In one hall fresh-water fish are kept, while the middle hall, containing the largest tanks, is occupied by sea-water fish and other marine animals. The remaining hall is devoted to tropical fresh-water fish, including not only the smallest tropicals, popular today with the aquarist, but also contains larger fish from Australia, South America, and Africa, etc.

Behind the tanks runs a wide service corridor, built on a level with the tops of the tanks so that feeding, cleaning, and other operations can be easily performed. In those corridors are a number of reserve tanks which serve various purposes. New animals are kept in quarantine, diseased fish can be treated there, and also breeding can be undertaken, especially of the smaller tropicals.

Upstairs is a research laboratory which undertakes various studies.

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Maintaining a large collection of fish and other aquatic animals in good condition presents many problems and needs constant watchfulness. although the filter beds, already described, remove any solid impurities suspended in the water which passes through the overflow pipes, a lot such as uneaten food and excrement from the occupants, settle on the bottom of the tanks. To facilitate cleaning, each tank has a bed of sand against which these particles can easily be seen. Everyday, the sand bed is cleaned: by passing over it the end of a hose connected to a suction pump.

Conditions which are satisfactory for the fish also stimulate the growth of algae. The minute plants quickly cover the sides of the tanks, including the glass fronts. The glass, therefore, has to be cleaned every few days with a rubber squeegee to enable the visitors to see the occupants.

The sea-water hall poses more problems than the other two. In its construction care had to be taken that none of the pipes or reservoirs contained materials which could be corroded by sea-water. Even so, from time to time difficulties arise due to seeping as pipes and joints wear thin. Also maintaining a large stock of sea-water in an inland town is a major problem. The original supply came from the Bay of Biscay, where the water is particularly clean and suitable for aquarium work. Periodically fresh supplies are obtained from this area. The water is taken into the ballast tanks of London bound cargo vessels, then brought to Tower Bridge. Here it is transferred to barges which carry it along Regents Canal, from whence it is pumped into road tankers and driven to the aquarium.

New supplies are not often needed, as sea-water can be circulated continuously for a long time, provided care is taken to add fresh-water from time to time to make good losses due to evaporation. Such losses would, of course, concentrate the sea-water, producing a high salt concentration which would be harmful to the fishes.

Feeding the occupants of so many tanks is itself a major and complicated task. Fresh-water fish are fed mainly on shredded horse meat varied occasionally with stale bread. In the sea-water hall small pieces of whiting, herring, or other fish are suitable for most specimens, while for others shrimps, sand hoppers and other small crustacea are used. In the tropical hall live food is used whenever possible. Such small animals as daphnia, small earth worms, and red larvae of the *chironemus* are widely used.. The advantage of using live food is that any not eaten when introduced will go on living in the tanks. Live foods may also help to keep tanks clean by eating small particles of foreign matter.

In some of the sea-water tanks prawns and small crabs are introduced as scavengers to consume any food not eaten. They can't of course, be introduced into tanks containing animals that would eat them.

Diseases caused by parasites are always one of the major headaches of the aquarium keeper. In this Zoo, where many tanks are on the same circuit, an outbreak of disease among the occupants of one tank can easily spread to all the others. Very careful watch, therefore, is maintained for any possible outbreak, and a tank in which a disease is suspected is immediately isolated from the general circulation. It's occupants are transferred to a reserve tank in the service corridor at the back, where they can receive treatment. The affected tank is thoroughly cleaned and disinfected.. Perhaps the commonest disease is that cause by the parasitic fungus, saprolegnia. Infected fish usually require prolonged treatment before they can be safely be returned to the exhibition tanks. This infection seems mostly to develop after fish have suffered a sudden change in water temperature, but the most likely cause of an outbreak is from infection by new stock. For this reason all new specimens at the aquarium are placed in reserve tanks and kept under observation, being introduced into the exhibition tanks only when their freedom from disease is verified.

Through the maintenance of all these precautions the aquarium has fortunately escaped any major outbreak of disease.

LETTER

Sir,

With regard to the article on white spot in a recent JOURNAL (Number 29, December '9 White Spot by Norman Sellers) I was a little perturbed to read that (quinine hydrochloride being recommended.

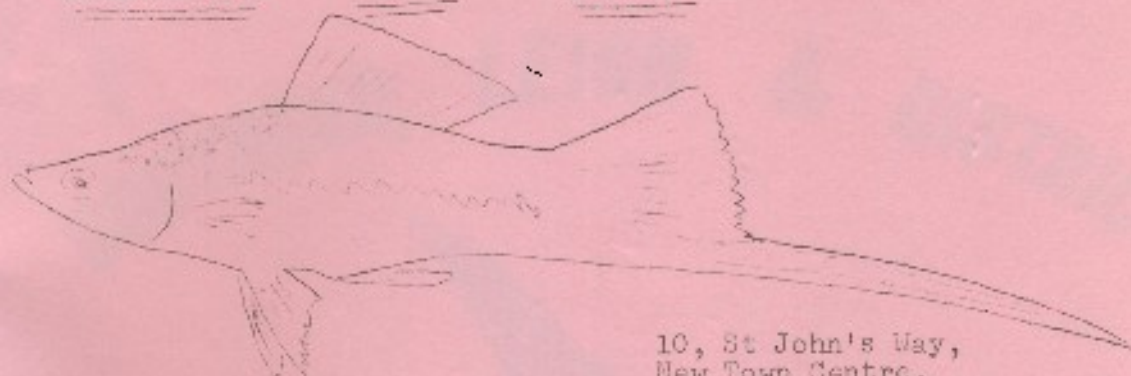
This was once freely available to all aquarists being marketed in tablet form by Singleton Bros; it was called "Es-Es" White Spot Cure.

However for the past two years quinine hydrochloride has been banned from the UK. market under the Dangerous Drugs Act . It is therefore no longer manufactured for the aquarist.

Yours faithfully,

C.J.Skilton,
Chelmsford,
Essex.

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Yours faithfully

(signed)

Eddie

-16-
CLUB NEWS

Meeting: March 17

GUPPY TABLE SHOW

- 1...Mrs Finch
- 2...M. Upton.
3. .H. Dunnnow
- 4...R. Passmore.

TOOTH CARP TABLE SHOW

- 1...B. Dunn.....*playfairi*
- 2..B. Dunn.....*Epiplatys*.
- 3..H. Dunmow
- 4..R. Passmore

The talk this evening was on Tooth Carps and illustrated with slides but who gave it my notes do not appear to say, and my memory fails me as usual so it is better not to guess. My apologies to oar phantom lecturer !

The Raffles-

- Miss J. Edwards.....pH kit.
Brian Dunn.....Hardness test kit
Mr Clark..... bag of Floating plant.
Eddie Gwilliams,.....pair of widows (donated by M.J. Rodgers)

After setting down the results of the raffle my memory has revived I know now who the phantom lecturer was —— he'll kill me he brought me to the meeting --- it was Dave Cheswright. actually we really had two talks because Dave Edwards gave a talk and demonstration on testing for hardness in water. Dave brought along a number of kits that he had made up and inadvertently someone, probably your idiot editor, in their enthusiasm sold even Dave's own personal kit. At any rate Brian Dunn came to the rescue by giving the kit that he had won in the raffle back to him.

Meeting April 7

A Quiz need more be said, the results were pretty close as I remember, yes my notes are deficient again (RESIGN !!) but after all our own quizzes arc only meant as a bit of fun. Incidentally, one of the team leaders, Norman Sellers, has taken me to task over the question on koi but more of that in our next issue.

Winners in the raffle were:-

- Mr Easterford....pair of Ramirczi.
Tom King...harlequins.

TABLE SHOW. DANIOS. RASBORAS, MINNOWS

- 1...D. Little.....Zebra,
- 2...H.. Dunmow Pearl Danio.
3. B. .Dunn.. *Rasbora maculata*.
- 4...H. Dunmow.....Brilliant Rasbora.

This is getting past a joke, turning over the next page in my note book I have found the results of the quiz-- Team four with Brian Dunn as captain won with 22 points. teams two and three under Lawrence Mitchell and Eddie Gwilliams came second with 20 points a piece, and team one with Norman Sellers as captain came last with 19 points, as I said a very close match.

Meeting April 21

Dave Edwards gave a talk on General Breeding and Show Standards, a particular point he mentioned was that a clean show container is a must - at least let the judge see the fish he is trying to judge - if you've got a good fish don't spoil your chances because the water is so murky that he has difficulty finding out if there is really a fish in the tank or jar.

Dave also talk on the film on the television the previous Sunday on Fighters - no Pete didn't see it he didn't know it was on !

MINI TANK. SHOW

- 1.....A.Russel.
- 2.....M.Upton.
- 3.....L.Mitchell.
- 4.....A. Russel.

DWARF CICHLIDS

- 1., R.D..Orford'.
- 2...D.Little.
- 3.. R.D .Orford,
4. .M.Upton

The raffle was won by:-

Peter Mephram.....Show tank.
Miss Upton,,bag of mollies and platys
Mr Parker..... bag of mollies and platys
Eddie Gwilliams.....house plants.

(the mollies and platys were donated by Mr A Russel.

INTER-CLUB QUIZ AT BILLERICAY. April 28

The quiz master was Ron Dodkins of East London Aquarists and Pondkeepers Association, the S.L.A.D.A.S. team reckoned he was a marvelous questioner but maybe we were biased we WON ! Ron brought along two members of E.L.A.P.A.S. as adjudicators and two members as scorers just to make sure everything was fair and above board. Ron said he brought them as a body-guard in case the losing teams got nasty. You should not have worried Ron as since S,L.A.D.A.S. won we would gladly have seen you safely off the premises.

The results were ;-

S.L.A.D.A.S.65½ points.	Blackwater...	.60 points
BILLEHICAY.. ... 54 points .	WITHAM..	37 points

Southend hold the Shield until the next round of this competition which has been provisionally booked at Blackwater (Maldon) on October 23.

In addition to the quiz there was also a table show.

SHARKS

- 1...T. Clark.....Southend.
2. ..K. HoltBillericay.
- 3.. T. Clark.....Southend.
- 4.. P. Murphy.....Billericay.

LABYRINTHS (not Fighters)

- 1...Mr Seager.....Witham
- 2...D.Edwards.....Southend.
- 3..Mr Seager.....Witham
- 4.. T. Clark.Southend

BARBS

- 1...C. Clark.....Billericay.
2. .D. EdwardsSouthend
- 3...C. Clark.....Billericay
- 4...B. Mitchell.....Southend.

CHARACINS

- 1...D. Edwards.....Southend.
- 2...R. Caine.....Witham.
3. .PPatis ., ,Billericay.
- 4...D. Finch.....Southend.

The judge was Ed Niccol

APPOLOGIES

We would like to apologize to Ray Nield and Dave Little for mixing up their positions in our club table show in our report for March 3, also to Dave Edwards and his daughter for a similar mix up over names at the Thurrock Inter-Club. The points position has been rectified in the table of positions.

A. NEW. COMPETITION.

The staff of S.L.A.D.A.S. JOURNAL will donate.. a marvelous prize to each reader. Bob and Peter have pooled their financial resources and are prepared to offer a GENUINE MATCHED PAIR of *Oodinium limneticum* to each reader pointing out mistakes in the JOURNAL. (That should stop 'em;)

TABLE SHOW POSITIONS

(as of May 5)

D. Edwards.....	.22 points	Mrs Finch.....	4 points
B. Dunn.....	.15 points	F. Bloxham.	4 points
P.F. Capon.....	.12 points	Miss J. Edwards.....	4 points
R.D. Orford.....	. 9 points	R.B. Carrier...	3 points
M. Upton.....	. 9 points	M.J. Rodgers...	3 points
K. Adams ..	. 8 points	D.Little.....	3 points
H. Dunmow	.12 points	R. Cope.....	3 points
R. Walling .	7 points	L.Mitchell....	2 points
T. Clark.....	.11 points	D. Finch	2 points
R. Passmore.....	. 6 points	B.Mitchell....	1 point
R. Nield.....	. 5 points	K. Lane	1 point
A. Russel.....	. 5 points	D.Chapman.....	1 point
D. Cheswright.....	. 4 points		

JUNIORS SHOW POSITIONS

I. King.....7 points,.....D. Victor.....7 points.....P. Chapman.....4 points

EXCHANGE REVIEWS by Ray Nield has been held over until our next issue due to lack of space, sorry Ray !

STOP PRESS INTER-CLUB AT SOUTHEND RESULTS. Southend 27 points, ' Thurrock 12 points, East London 7 points, Billericay 4 points full results in our next issue.

The **JOURNAL**. This issue of the S.L.A.D.A.S, JOURNAL has been brought forward to coincide with our **Open Show**, the next issue will be available in June, don't miss it as it will carry all the show results.

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every third Tuesday in each month at 8.00 pm at:-

**ST ANDREWS HALL
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**BI-MONTHLY JOURNAL Number 33
JULY 1970**

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EUROPEAN CONSERVATION YEAR IS HALF OVER - BUT FISH ARE STILL DYING
FROM POLLUTION - WHY ? TODAY IT'S WILD FISH TOMORROW AQUARIUM FISH -
AND THEN.....?

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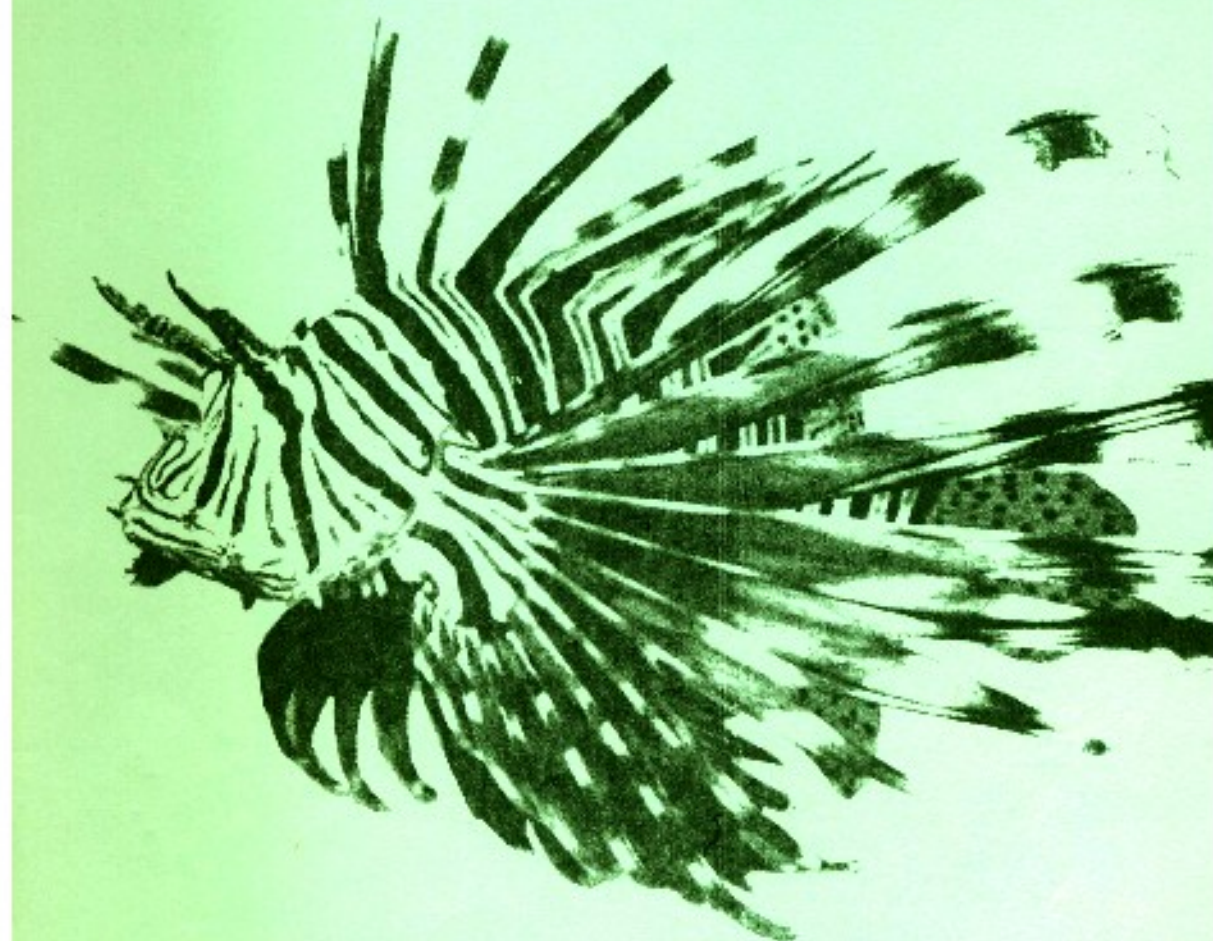
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TRADERS advertise in this JOURNAL reach the really keen aquarists; rates on application to the assistant Editor.

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EDITORIAL

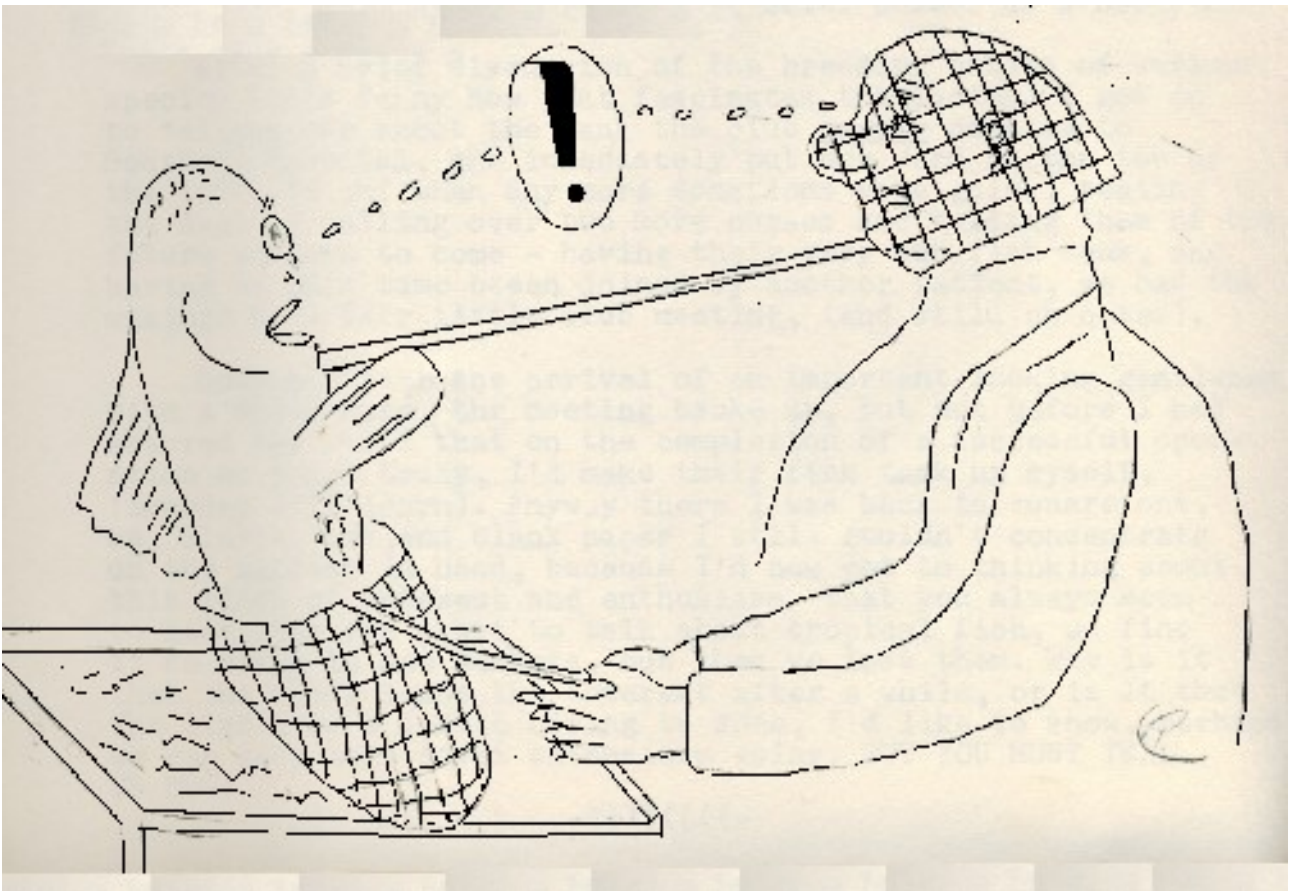
On September the 1st we have a NEW table show, as for the first time Southend, Leigh and District Aquarist Society are staging a MARINE table show. It will be very interesting to see what turns up on the bench, let us hope that we have a good number of entries.

But, I can hear many of you saying "Marines are expensive !" Rubbish you can buy them for as little as 15/- for a clown, or small Monodactyls for the low price of 6/-; where does he find these prices? -- just look through the advertisements in the English aquatic magazines.

If the prices members are willing to pay for ordinary freshwater tropicals at our own auctions are anything to go by these prices are chicken-feed ! Let us see what sort of show we can put on. !

Admittedly marines doe APPEAR to be more difficult to keep than the usual tropicals, I know because I have just lost two large Mono's, but weren't ordinary trop's more difficult than coidwater types when the tropicals were first introduced.

Just think of the glory to yourself and S.L.A.D.A.S. If YOU were to be the first person in the world to breed and rear one of the species of MARINE!



PRESIDENT'S PAGE

by Dave Edwards

For some reason best known to themselves, certain members of the committee think we should have a President's Page in the JOURNAL - so here goes, -"be it on their own heads".

I'm writing this from the modern super-de-luxe wing of Southend Hospital, hot and cold hypodermics an additional extra.

I thought this would be an ideal time to write a few notes

for a coming talk at the club, so armed with a copy of Sterba, a pen and a great stack of paper, I settled down to refresh my memory and perhaps glean a little more information from this excellent book.

It was not to be, barely had I opened the book when the ward sister came round, took one look at what I was doing and we promptly started off on a discussion of "those pretty little fishes", I sometimes wonder if it's possible to find anybody who is not interested in our hobby.

After the Sister had told me of her experiences (of keeping fish), this ended it seems when her pet Siamese realized there was sport, plus a meal to be had simply by lifting the lid of the tank with one paw, and a quick dip with the other one, and presto, instant fish tea. As standard cat-food is cheaper and the cat was there to stay, so ended her brief career as a hobbyist.

After a brief discussion of the breeding habits of various species (it's funny how that fascinates the ladies) I got on to telling her about the tank the club nearly donated to Southend Hospital, she immediately put her ward at the top of the list, if and when any more donations were going, sealing the deal by calling over two more nurses and telling them of the future wonders to come - having their very own fish tank, and having at this time been joined by another patient, we had the makings of a fair little club meeting, (and still no notes).

Suddenly with the arrival of an important looking gentleman with a brief case, the meeting broke up, but not before I had assured the staff that on the completion of a successful operation on yours truly, I'd make their fish tank up myself, (someday I'll learn). Anyway there I was back to square one, me, Sterba, pen and blank paper I still couldn't concentrate on the subject in hand, because I'd now got to thinking about this flash of interest and enthusiasm that you always seem to meet when you start to talk about tropical fish, we find it so often in new members, but then we lose them. Why is it that the hobby loses the interest after a while, or is it that the club gets a little boring to some, I'd like to know, perhaps we can keep that first enthusiasm going. BUT YOU MUST TELL US HOW!

-))))((((-

TANK TALK

by N.H. Sellers.

(continued from our last issue)

ASBESTOS CEMENT AQUARIA - rarely if ever seen in this country they are moulded or fabricated from flat sheets with a cut-out at the front for one viewing panel, this being a sheet of glass puttied in. The asbestos is given a water-proof coating.

GLASS-FIBRE FRAMED TANKS are available but the frame gives a clumsy appearance,

ALL PLASTIC MOULDED TANKS eliminate the rust problem but tend to crack or break on impact, are difficult to clean without damaging the surfaces, and heaters will melt the plastic if positioned too close to the sides. Normally suitable as marine aquaria.

ALL PLASTIC FABRICATED TANKS are metal free and hence do not rust, are pleasing to the eye, but again are difficult to clean and are affected by excessive heat.

SHEET GLASS FABRICATED TANKS cannot normally be purchased and are in the experimental stage, require accurate glass cutting and special adhesives, have a life span of several weeks to several months. A very "dicey" proposition. (Editors note: a number of our members have had sheet glass tanks in use made with the aid of the new silicone sealers for quite some time now and the only failure that we have heard of is with a SIX footer where the glass cracked, and in a smaller one where the owner accidentally cut the silicone with a razor blade and caused the sealer to peel off.

WOOD FRAMED AQUARIA have been tried but tend to warp and leak. in time.

CONCRETE AQUARIA used mainly in public aquarium establishments and rather beyond the abilities of a novice to construct.

STAINLESS STEEL luxury but at a price; impervious to fresh and salt water and very pleasing to the eye if "chrome" finish.

Light angle stainless steel suffers the problem of distortion. Heavy gauge stainless steel is prohibitive in price, but indestructible. In Germany one can purchase a compromise - an ordinary angle iron tank with a stainless steel upper angle.

STANDS can be purchased in plain angle or wrought iron with scroll-work with and without shelves and cupboards. A recent

innovation has been the console which consists of a luxury finished veneered cabinet containing the tank. -which is viewed through a single front panel , the whole standing on thin steel legs. A truly beautiful piece of furniture.

Other ideas are building a tank into a wall or chimney-breast or in a through wall viewable from both sides.

WHAT IS "WONDER WATER" ?

by P.F. Capon.

What is "Wonder Water"? Wonder Water is a mixture of salts which when made up to the manufacturers (Jonco Mfg Co of California) instructions enable the keeping together of marine and freshwater fishes. The secret is in a chemical mix that duplicates the "concentration" of salts in a fish's body so that the creature is swimming in what is almost a solution of it's own inorganic body fluids.

A freshwater fish lives in an environment that has a lower soluble mineral content than it's own internal fluids and in consequence has to pump water out of it's body to maintain this mineral content. A marine fish experiences the opposite effect for it's body fluids contain a lesser concentration of salts than in the surrounding water, it has to extract water from the sea and reject a certain proportion of the salts dissolved therein.

If a freshwater fish is placed in sea water, since it's body fluids contain less salts than the sea, water tends to pass out of the fish resulting in a higher concentration of salts in it's blood and vital organs than it can stand – the result is that the fish dies of shock. When a marine fish is placed in freshwater the reverse takes place, the body tends to take in water and the internal organs are suffused with a solution too dilute for life to continue, actually the fish does not shrivel up or bloat according to it's type but dies in a short time since it's salt absorbing or water removal mechanisms rapidly become overloaded and the creature dies from shock.

Perhaps an experiment with a common household item will help readers to understand this movement of water in and out of the fish's body. If a prune is soaked in water it absorbs water until it has swollen up to the size of the original undried plum, if the prune is left in the water too long it will burst. If the prune that has swollen up to the

plum size is put into a strong salt solution it will slowly shrivel back to the size of the prune. What is happening is that the sugars etc in the prune (akin to the salts in our fishes) absorb or lose water in an attempt to get an equal concentration of water soluble materials both inside and outside of the fruit. It would be possible to mix up a brine or sugar solution of just the right concentration to give a perfect shaped plum when the prune is immersed in it, so that the fruit neither absorbed any more water and burst, nor lost water and shrank. and shriveled. This is just what Jonco have achieved with their Wonder Water. No ! I am not suggesting that Wonder Water is for getting perfect prunes, who wants salty prunes?

What they have got, after years of research mainly by Japanese scientists and aquarists, is a salt mix that balances the tendency of freshwater fishes to loose water and marines to gain water when placed in water other than that which nature designed them for.. Wonder Water solution is a salt mix that is . isotonic (I) with fishes body fluids.

Wonder Water will not support invertebrates such as snails, crabs, anemones etc simply because their body fluids are different to fishes. It should be possible to devise solutions for these creatures but these would not in their turn be suitable for fishes. Because Wonder Water is not suitable for invertebrates it quickly puts paid to white spot, velvet, etc. Similarly plants tend to die in Wonder Water.

Reading the Jonco pamphlet the whole object appears to be the keeping of Marines and Freshwater fishes together in the same tank, personally, I can't see the point - apart from astounding the general public at a show ! Freshwater fishes do not breed in the mix and presumably salt water ones do not either, so what is the point. Perhaps we British hobbyists look at fish keeping differently to our American cousins but most of us like to have young from our fishes even if it's only the odd baby swordtail saved from our community tank. If a fish will breed it must be happy with it's surroundings and conditions so obviously Wonder Water is not the perfect .environment. Many of us nurture the desire' to go down in aquatic history as the first to breed such and such a fish, particularly amongst the marine aquarists. Widespread use of Wonder Water could mean that the . relatively expensive marines remain so for if a fish will not breed it has to be imported from the wild and this costs money not to mention the problems of conservation.

Where,I personally think that Wonder Water could prove of unique value is in dealers tanks, as a quarantine for both types of fishes because of it's power to destroy disease organisms. Although it is less corrosive than sea water it will still attack metals so precautions would have to be taken. The Trader should also ascertain whether sterility is induced by this product.

Terms used. (l) isotonic solutions are solutions of equivalent osmotic pressure. Osmotic pressure is the pressure needed to resist the passage of water through a membrane, readers wishing to learn more are invited to look it up in a Chemistry text book

KOI-CARP ???

by N.H. Sellers.

A QUIZ QUIZZ.ED.- (or did the editor "boob" or did he accept a "bribe" from the winning team?)
Question -

"Is the term Koi Carp valid?" his answer was "No, as this is equivalent to saying "carp carp"

The wild carp is bronze in colour and much valued in Japan as a source of protein. Some years ago as a result of selective breeding plain red and gold varieties were produced and these, were termed Hi Goi to differentiate them from the common type. Further recent developments have resulted in a multi-coloured carp possessing four barbels in the adult fish, only two being normally visible in the young.

The commonest colouration is white with orange splashes, though many other colour variations, with occasional reversions to the wild type colouration, are known. This latter multi-colour variety is known and exported as KOI-CARP to differentiate it from the common and plain colour varieties.

Editor's reply:- The source of information for the question on Koi in the quiz was T.F.H. for December 1969 "Koi, Japanese Imperial Coloured Carp" by Herbert Axelrod, page 4. Mr Axelrod states '!'....both words, Koi and Goi mean carp in the Japanese language, and the same Japanese character can be read in either accent." In the book "Exotic Tropical Fishes" from the same stable in supplement F-158.10 it states that Koi, or Japanese Coloured Carp are the result of hybridization between *Carassius carassius* (Crucian carp) and *Carassius auratus gibelio* (Prussian Carp)

APPOLOGIES TO MIRACLE AND METAFRAME

In this JOURNAL Number 31, April 1970 we referred to Metaframe and gave the impression that this corporation was part of the T.F.H./MIRACLE combine. This was in the article " T.F.H. versus the AQUARIUM" authored by the editor. Herbert R. Axelrod has written to us to point out this fact;

LETTER FROM H.R.AXELROD

Dear Mr Capon,

I read with great interest your April 1970 issue "Tropical Fish Hobbyist versus the AQUARIUM".

A great many changes have been made in T.F.H. since the March 1969 issue, and I present the current issue for June 1970 as an example.

However, you seem to have made some fairly exaggerated and incorrect statements. I think that the most comical of all was your last sentence wherein you say that " T.F.H. always seems to give the impression that you can't breed fish unless the parents are fed on Miracles Freeze -Dried foods and kept in a Metaframe aquarium.

It might interest you to know that Metaframe is the corporation that publishes the AQUARIUM and I doubt that you have seen any reference to a Metaframe aquarium in our magazine in the past five years or more.

Further, advertising is a great part of the American literary scene. Most of our newspapers contain 70% to 80% advertising. I know that this is not true of the British newspapers. We also have so many pages of colour advertising for our pet products that it is a plus factor on the American scene where it might not be on the British scene.

However much I disagree with your comparisons, I certainly think that it is refreshing that an editor has taken the time and trouble to criticize some of the mass media that occur in our hobby, and I think it is a sad fact that the best magazines have to be supported by companies that are major factors in the aquarium industry.

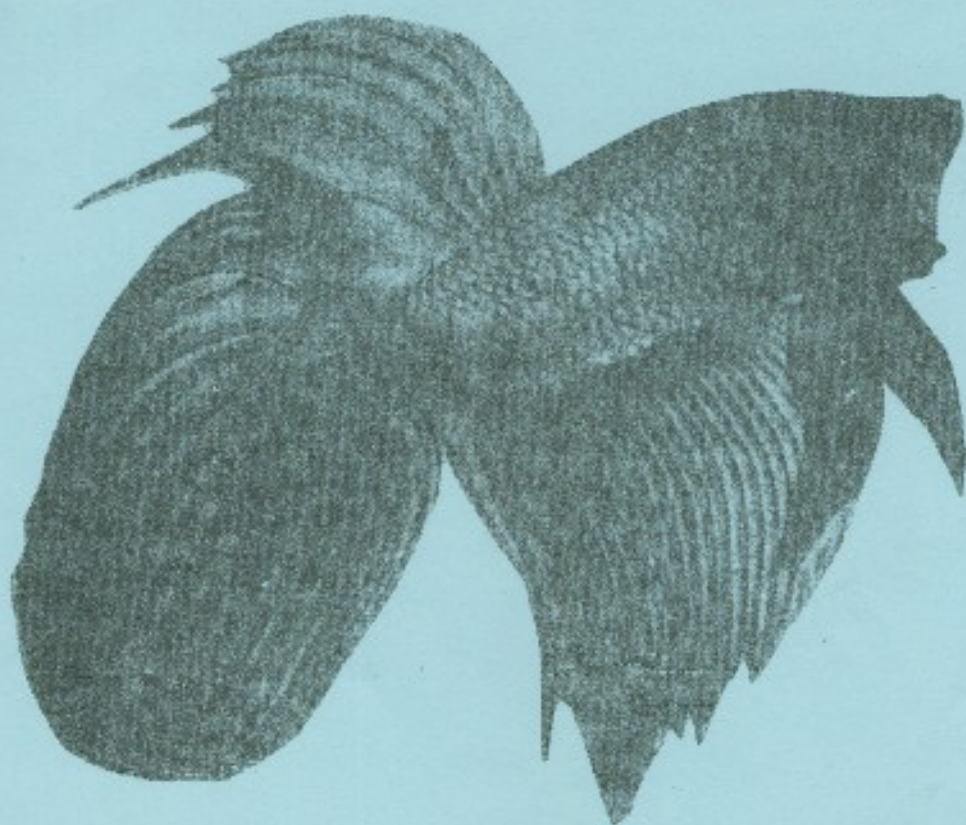
Yours very truly,
Herbert. R. Axelrod.
President Miracle Pet Products.

Editor's comment for any erroneous impression that Metaframe and Miracle were associated I apologize to both firms.

As to Mr Axelrod's comment that the best magazines are supported by major firms, to the best of my knowledge neither of the two British magazines, The AQUARIST and PETFISH MONTHLY, are controlled by pet product firms. But as he says or rather implies the British and American scenes are different.

Incidentally, what do readers think of our own slicks adverts compared with those in the American mags?

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CLUB NEWS

INTER-CLUB MEETING AT SOUTHEND

The winners from S.L.A.D.A.S. were :-

E. Bloxham, first, R. Carrier, second, R. Passmore third, and K.Lane fourth in the Male Guppy class.

R.D. Orford first, K.Adams second, D. Edwards third,, and K. Adams fourth in the A.O.S. Cichlid,.

D. Edwards second in the Dwarf Cichlids,.

M. Rodgers third and fourth in the Toothcarps,. and D.Chapman fourth in the Danio, Rasbora, and White Cloud class,

The judges :-were Messrs Jessop and Creed, many thanks gentlemen, the points awarded to the clubs for this round were Southend 27 points, Thurrock 12 points, East London 7 points, and Billericay 4 points. This gives the total points to date as Southend 36, Thurrock 26, East London 14 and Billericay 5 points,

During the evening we were entertained and entertained is the word by George Yallop who spoke of his experiences in Malaya, Singapore and other parts of the world where our fishes come from.

The raffle was won by :-

.. W Hadkiss..... basket of fruit.
D.Finchfilter.
Mr Arrow (E.L.)....pump
Mr Green(E.L.)camera.
R. Bloxham.....shaver.
Mr Rolf (Billericay) bag of mollies.
Mr Arrow (E.L.) "Fluffy" dog.

S.L.A.D.A.S. OPEN SHOW MAY 15

RESULTS

GUPPY A.V. MALE

- 1...K. Lane (S.L.A.D.A.S.)
- 2.. .K. Appleyard.
- 3,,S.G. Cowell
- 4...K.Lane (S.L.A.D.A.S.)

A.V. PLATY

- 1...R.D. Orford (S.L.A.D.A.S.)
2. .R. Kerridge.
3. ..D. Durrant.

GUPPY A.V. FEMALE

- 1.. .R. Passmore (S.L.A.D.A.S.)
- 2.... K. Adams (S.L.A.D.A.S.)
- 3.. .A.. Chapman (S.L.A.D.A.S.)
4. • .J .J. Arrow.

A.V. SWORDTAIL

- 1...P. O`bryan
2. .C. Wood
- 3....B.J. Goodyear

4...T.Clark (S.L.A.D.A.S.)

4.. .B.J .Goodyear.

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A.V. MOLLY

- 1...G.S .Green
- 2..B.S. Alborough
- 3...M. Upton (S.L.A.D.A.S.)
4. .E.Longman
- 4...R.Passmore (S.L.A.D.A.S.)

DWARF CICHLID

1. ..D. Edwards (S.L.A.D.A.S.)
- 2...M. Seago
- 3...G.S. Green
- 4...A. Chapman (S.L.A.D.A.S.)

A,O.S. CICHLID

- 1., .D. Edwards (S.L.A.D.A.S.)
- 2...S.G. Cowell
- 3...K. Adams (S.L.A.D.A.S.)
- 4...K. Adams (S .L.A.D.A.S.)

DANIOS AND WHITE CLOUDS

1. ..F..Few,.
- 2...P. O'bryan
- 3...A.Chapman (S.L.A.D.A.S.)
- 4...A. Chapman (S.L.A.D.A.S.)

A.V. FIGHTER

- 1...D. Durrant.
2. •D. Durrant.
- 3....C. Wood
4. .J .J.Arrow,

A.O.S. LABYRINTH

- 1...R. Kerridge
- 2.. D. Edwards (S.L.A.D.A.S.)
- 3....M. Seago
- 4....R.Kerridge

A.S. COLDWATER

- 1...R. Smith
- 2...S.G.Cowell,
3. .R.. Kerridge
- 4...R.Easterford

A.V. BARB

- 1...D. Edvards (S.L.A.D.A.S.)
- 2...A. Staples (S.L.A.D.A.S.)
3. .J Cowell
4. .. C.Wood.

A.V.ANGEL

- 1.. .D. Cheswright (S.L.A.D.A.S.)
- 2...T. Clark (S.L.A.D.A.S.)
- 3...M. Upton (S.L.A.D.A.S.)
- 4...W.Ashfield.

TOOTH-CARP

- 1.. .R. Simpson.
- 2...D. Edwards (S.L.A.D.A.S.)
- 3.. .C. Cheswright (S.L.A.D.A.S.)
- 4...M. Upton (S.L.A.D.A.S.)

RASBORAS

- 1...D. Edwards (S.L.A.D.A.S.)
- 2...K. Adams (S.L.A.D.A.S.)
- 3....K. Appleyard,
- 4,,R.Smith.

CORYDORAS & BROCHIS

- 1...T. Clark (S.L.A.D.A.S.)
- 2...D. Edwards (S.L.A.D.A.S.)
- 3...D. Durrant
- 4.. .K. .A. Holt.

A.O.S. CATFISH

- 1...R. Kerridge
2. S .G. Cowell
- 3.,D. Little (S.L.A.D.A.S.)
- 4.. .R. Kerridge

A.O.S. TROPICAL

- 1...R. Passmore (S.L.A.D.A.S.)
- 2...L. Mitchell (S.L.A.D.A.S.)
- 3...T. Clark (S L.A.D.A.S.)
- 4...L. Mitchell (S.L.A.D.A.S.)

BREEDERS LIVEBEARERS

- 1...D. Cheswright (S.L.A.D.A.S.)
- 2..G. Green
- 3...D. Cheswright (S.L.A.D.A.S.)
- 4...R. Passmore (S.L.A.D.A.S.)

A.S. TROPICAL MARINE

- 1...B. Goodyear.
2. B. Goodyear
- 3...D. Cheswright (S.L.A.D.A.S.)
4. ..D. Cheswright (S.L.A.D.A.S.)

A.S. TROPICAL PLANT

- 1...M. Upton (S.L.A.D.A.S.)
- 2...J.J. Arrow
3. D. Durrant
- 4...P.F. Capon (S.L.A.D.A.S.)

BREEDERS EGGLAYERS

- 1...J.J.Arrow
- 2...D.Durrant
- 3 ..T. Clark (S.L.A.D.A.S.)
- 4...G.S.Green

FURNISHED AQUARIA

- 1,,S. Mole.
- 2...D. Finch (S.L.A.D.A.S.)
- 3...D.Durrant
- 4..D. Cheswright (S.L.A.D.A.S.)

CHARACINS

- 1.. R. Kerridge (**Best fish in show**)
- 2.. D. Edwards . (S.L.A.D.A.S)
- 3.....D..Durrant
- 4.....S.G.Cowell..

-----.

We would like to extend our most hearty thanks to Malcolm Upton the Show Secretary and his committee for putting on the most successful show, not forgetting the ladies and our gallant refreshment secretaries Ray and Fed Bloxham, nor of course ,the gentlemen of the F.B.A.S. who journeyed down to Southend to do the judging and naturally all the many club members who also helped in so many ways. To those of you who didn't enter or weren't able to help you don't know what you were missing- try lending a hand next year - you'll find you will enjoy it !

Meeting May 19

This evening was an auction. We were also able to meet and welcome the new members who had signed on at the show.

The raffle for the evening was won by;-

Miss Upton.....show tank.
Terry Russel.....aerator.
Norman Brownbox of mushrooms

Meeting June 2

Alan Chapman gave us a most entertaining talk on furnished aquaria complete with demonstration on how to do it; Alan was talking before the club for the first time - I suggest we put him up the front again !

pet shop



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LABYRINTH TABLE SHOW

- 1.....T. Clark.....thick lip
- 2.....K. Lane.....dwarf gourami
- 3.....M. Rodgers.....Thick lip.
- 4..T. Clark.....Thick lip

This class -was judged by Dave Cheswright

TABLE SHOW CATFISH

- 1.....T. Russel.....glass cat
- 2.,.....D. Little.....Jullii.
- 3.....D. Little.....hastatus
- 4.....A. Chapman,.....dwarf corydoras (?)

This show was fudged by your editor, and a right mess he made of it if some of the comments we had addressed to us were meant to be serious - he tried his best, honest !, the fact is the rest of the committee conned him into the job (Resign !)

OUTING TO KEW GARDENS June 14 we understand that this outing -was a great success and the weather was glorious.

COMMITTEE MEETING held at 2, Cedar Avenue, Wickford, 27th of April.

Present were President, Treasurer, Secretary, Ted Bloxham, Don Finch, Laurence Mitchell, Bob Passmore, Steve Morris, Ray Bloxham, Ray Nield, and Bob Orford, visitor Malcolm Upton, apologies from Peter Capon.

The Treasurer informed that Miracle Pet Products had had written to the JOURNAL editor offering to forward a dozen bottles of "Clear-Ich" for our evaluation and comments, With regard to members being invited to give talks Brian Dunn agreed to speak in the near future but Steve Morris declined . The idea of a club diary was abandoned. The President informed there was insufficient support from the floor for the proposed trip to Harrow Green Aquatics.

Owing to the present P.R.O. being unable to attend some meetings Steve Morris proposed that Alan Chapman be co-opted to perform the duties, the President was requested to approach Mr Chapman concerning the post.

With regard to the tank at Nayland House, the President had stated that a glass cover had been placed between the tank and hood to prevent condensation getting onto the lamps, as yet,

there had been no reply from the Electricity Board with regard to earthing the tank. The secretary mentioned that a new roster was needed for Nayland House.

Mr Mitchell asked for confirmation that library fines were 2/- per book per meeting and stated that one book had been in a members possession since 18th November. Mr Mitchell also suggested that the club should enter an exhibit in "Aquarist" show it was agreed to put the matter before the floor.

R. Orford suggested that outings such as daphnia-hunting expeditions be organized but this was decried owing to lack of support in such matters from the floor.

EXCHANGE REVIEWS

by R. Nield

Plymouth and District Aquarists and Pondkeepers Society have ceased to publish their monthly newsletter, instead they have now started a quarterly publication. The first quarterly issue came out in September 1969 and is far superior to their previous monthly publication.

L. Ellis writes in the first quarterly magazine on the Leeri gourami and tells us that although it grows to five inches it is in most circumstances peaceful and can be kept with small fishes such as tetras. Mr Ellis states that whilst they are a fairly hardy fish they do occasionally suffer from gill infections. These infections cause them to gyrate erratically before finally sinking to the bottom of the tank to die.

The author recommends quarantine of new specimens and treatment of infected fishes with proprietary tablets of acriflavine at the rate of one gram tablet to twenty gallons of water.

The author states that the male is a good father but that he should be removed on the sixth or seventh day or he may eat his young. The foods suggested for the fry are infusoria or yolk of egg for the first week and brine shrimp and fine dry foods for the second week.

The president of the Milwaukee A/S writing in "SPLASH" for August 1969 about the International Betta Congress Convention held during last summer tells of an albino -'yellow" red-eyed fighter owned by Rod Gumes. He also mentions that George Torres the new I.B.C. president has managed to patent his new "Cellophane" Betta. During the convention an auction was held and one male fighter changed hands at 30 dollars. (Bet that made our editor green with envy)

TABLE SHOW POSITIONS

(as of June 16)

B. Dunn.....22 points	C. Finch.....5 points
D. Edwards.....22 points	K. Lane.....4 point
D. Little.....16 points	M.J. Rodgers.....4 points
T. Clark.....16 points	J. Edwards.....4 points
M. Upton.....15 points	T. Russel.....4 points
R.D. Orford.....15 points	A. Chapman.....3 points
P.F. Capon.....12 points	R.B. Carrier.....3 points
K. Adams.....12 points	R. Cope.....3 points
H. Dunnmow.....12 points	L. Mitchell.....2 points
R. Wallings.....7 points	D. Yolk.....1 point
R. Passmore.....7 points	D. Chapman.....1 point
E. Bloxham.....7 points	B. Mitchell.....1 point
D. Cheswright.....6 points	D. Finch.....1 point
R. Nield.....5 points	
A. Russel.....5 points	

JUNIOR SHOW POSITIONS

D. Victor.....7 points. I. King.....7 points. P. Chapman.. 4 points

REDS REHABILITATE GOLDFISH

by S.L.A.D.A.S. foreign correspondent

As I reported in this JOURNAL Number 135 October 1966, the Red Guards denounced goldfish keepers as revisionist and sought the complete annihilation of the goldfish in communist China.

Now that the steam has run out of the "great cultural revolution" it appears that the goldfish is being rehabilitated.

In May the Kwangtung Aquarium in the Canton Cultural Garden reopened surely a sign that the common people may now resume their fishkeeping without fear of being denounced as capitalist lackeys.

TINA MANN

by P.F. Capon.

It is with great regret that we have to report that Tina Mann, editor of the Florida Tropical Industries "TRADER" was killed earlier in the year in a motoring accident, just outside Miami.

Tina who was at one time editor of the Broward County Society' magazine "Aqua-Jewels", before taking over the "Trader". Tina will be missed by many hobbyists for she was always willing to supply information on aquatic topics just for the asking, for instance to myself when the "Walking

Catfish" story broke. Tina will be sorely missed on both sides of the Atlantic.

-21-

STAN HALSEY

It is with great regret that we have to inform our readers that ,STAN HALSEY passed away on Sunday the 21st of June in Rochford Hospital.

Our friend Stan was for many years President of the Southend 5Leigh and District Aquarist Society prior to opening his shop in Southchurch Road. Stan's great interest was in the fancy types of Goldfish and was the first trader to stock and encourage the keeping of marines in the district. He was always milling to lecture on aquatic topics both to S.L.A.D.A.S. and other Societies between Southend and London.

Our heartfelt condolences are extended to his widow and family by all the club members and his many customers and friends.

Southend club have sent a floral tribute in the name of all their members both past and present.

We would like to point out to members and readers that Stan's Aquarium will continue to trade under the able management of Stan's Son.

THE SOUTHEND, LEIGH AND DISTRICT AQUARIST SOCIETY
(founded 1938 or before)

The Society meets every first and third Tuesday in each month at 8.00 pm, at:-

**ST ANDREWS HALL
ELECTRIC AVENUE
WESTCLIFF-ON-SEA
ESSEX.**

**BI-MONTHLY JOURNAL Number 34
SEPTEMBER 1970**

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**READERS ARE REMINDED THAT ALL LETTERS SHOULD BE SENT TO THE
SOCIETY c/o INDIVIDUAL OFFICERS NOT TO THE MEETING HALL**

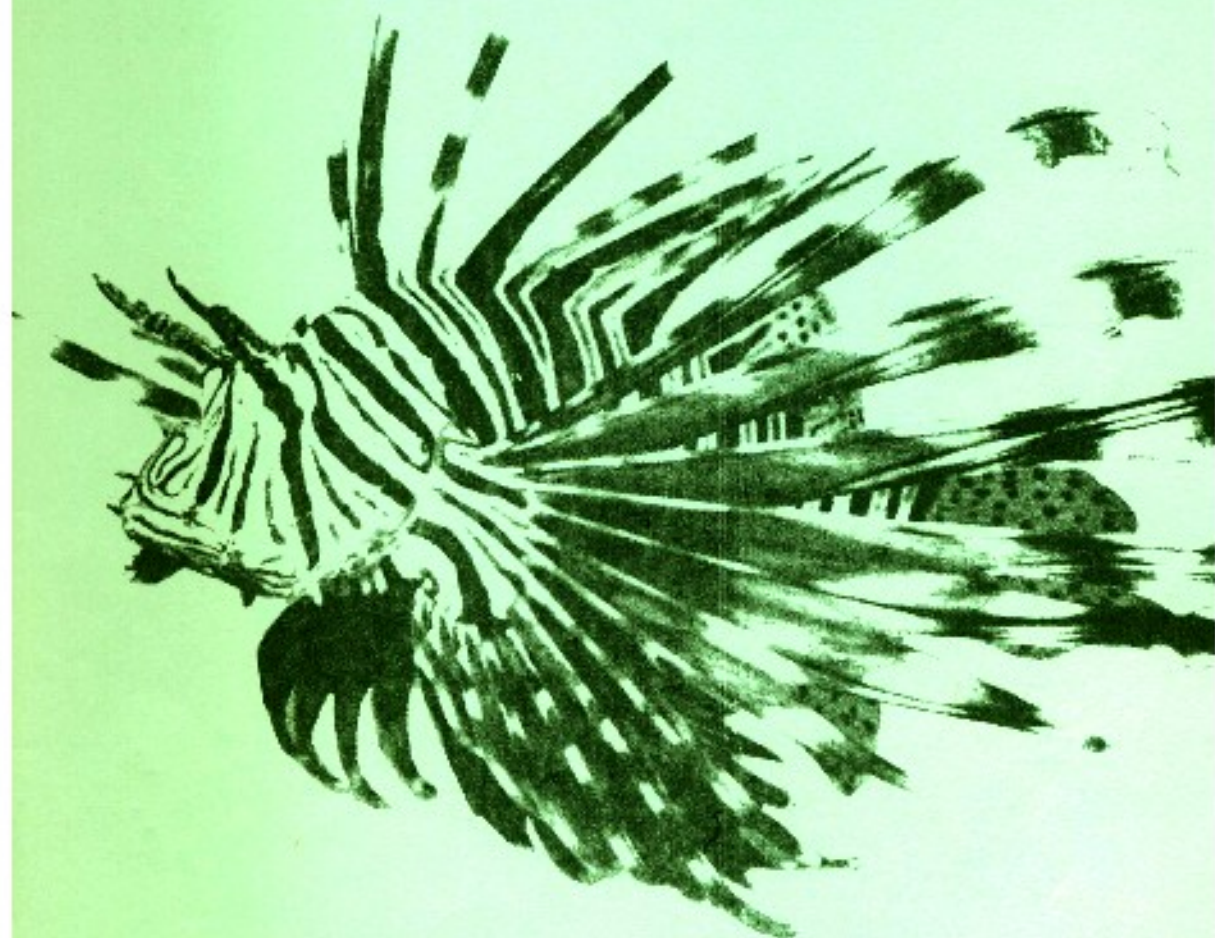
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S.L.A.D.A.S. IS THIRTY THREE—LET'S REACH FIFTY

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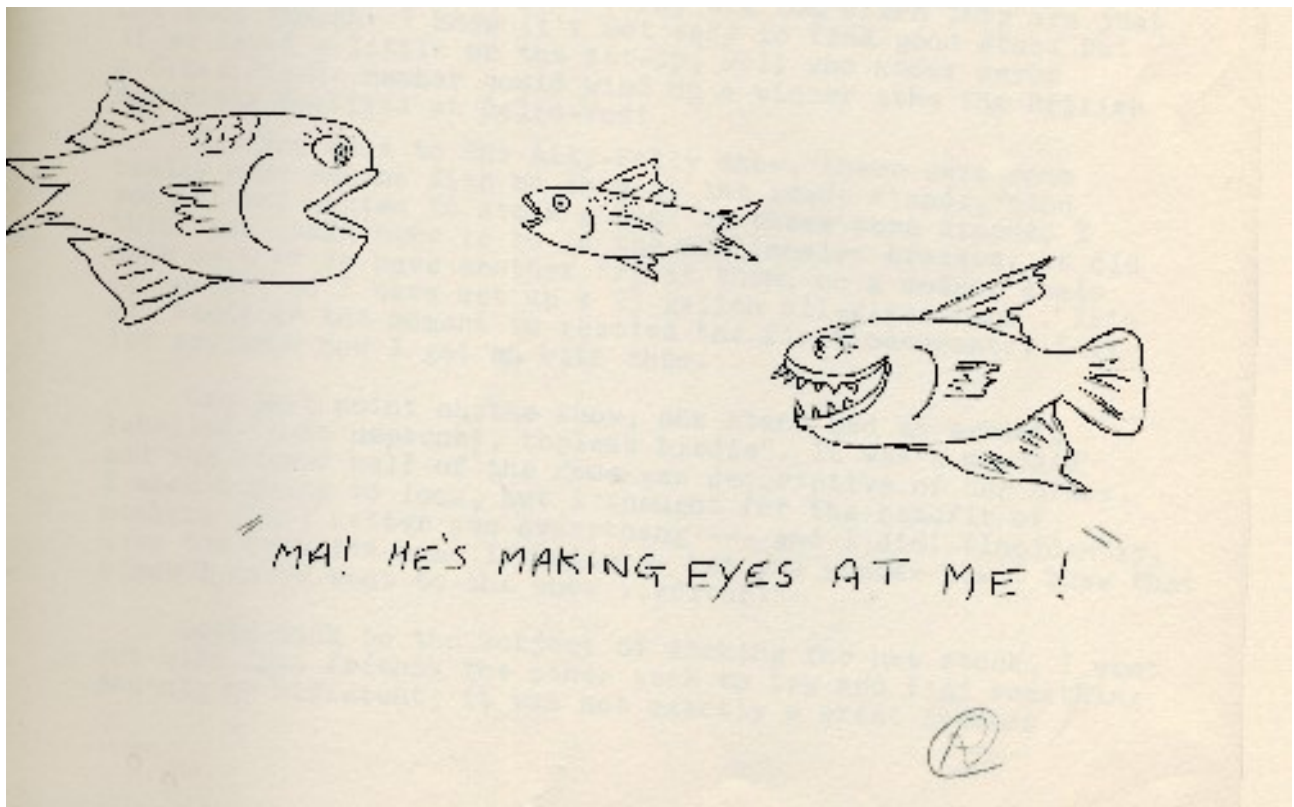
EDITORIAL

We are fast approaching the end of another S.L.A.D.A.S. year, one of the most successful too, on November 17 we have our Annual General Meeting. The meeting at which all members have the right, nay duty, to elect a new committee. How you vote on November the 17 th determines who and how your club runs for 1971.

Please do make every effort to turn up on this night and have your say on the club's future. There are 12 posts to be filled and YOU have a direct say in who shall fill them. If members so wish they may. elect a completely new committee, throwing out all those who served for 1970. If you reckon you would be a good person to have on the committee you are quite at liberty to offer your services.

If you are nominated for a post that you do not wish to take your wishes will be honoured, so don't stay away in case you have a job thrust upon you.

Please do attend and tell the new committee what you want of the club for 1971 and what You can GIVE the club in 1971» it's YOUR club !.



PRESIDENT'S PAGE

by Dave Edwards

I appear to have slipped up on my first "President's Page". I've been asked to "write another one, so here goes with another page of idle chat.

First, a short run down on the "Aquarist" show at Alexandria Palace concerning only those of you who couldn't make it yourselves. My first impression was, "a bit short of good fish on the show benches". There were some very nice furnished aquaria, including quite a fair section of marines, which was all very nice, and there were some of the finest plant (aquatic) exhibits that I have seen in a long time, which is all very nice. There were trade stands in abundance with gadgets old and new, but I'm a little biased in favour of looking at good fish, and apart from a few exceptions these as I've already said were a bit short.

The thought occurs to me that we could get our priorities mixed up (sounds nasty), no what I mean is, an expensive tank, all the latest accessories, no expense spared in presenting a beautiful set-up, (if you can kid the wife that it only cost half the true price). But then we come to what to me is the most important part..... (THE FISH, all too often they are just not good enough. I know it's not easy to find good stock but if we saved a little on the set-up, well who knows maybe a S.L.A.D.A.S. member could wind up a winner at the the British Aquarists Festival at Belle-Vue !

Getting back to the Ally-Pally show, there were some really good marine fish on show at the trade stands, mind you, if you wanted to stock a tank as these were stocked I think you would have to be in the millionaire bracket. It did make me want to have another try at them, on a modest scale of course, so I have set up a 25 gallon all-glass tank. It's all ready at the moment to receive the first occupants. I'll let you know how I get on with them.

One last point on the show, one stand had an exhibit labeled "Homo neptunes, topless birdie". It was a mermaid and the second half of the name was descriptive of her dress. I wasn't going to look, but I thought for the benefit of members I had better see everything --- and I did'. (Incidentally, Dave the mermaids name is Sally — bet you wonder how I knew that since I never went to the show ..editor)

Going back to the subject of looking for new stock, I went out with some friends the other week to try and find something decent, or different, it was not exactly a great success

but I did see some fish that had promise. If only they had looked in just a bit better condition. I know if a fish has white spot it is easy enough to cure, or if they are a little undernourished or overcrowded you can soon get them back into condition at home, but if you have a long car journey between the dealers and that hospital tank. at home it's best to think twice

That's a point to finish up on'. When you go out to buy fish don't forget to have a clean quarantine tank ready for any new arrivals.

THE HISTORY OF THE AQUARIUM

by D.W. Roberts, F.Z.S.

When fish were first kept in glass jars we do not know, but it was certainly a long time ago. There is some evidence that a few people kept fish in this way in the sixteenth century, and certainly by the seventeenth century we have definite proof that the fish as an indoor pet had arrived.

It was not until the eighteenth century, however, that keeping fish as pets became widespread, when goldfish were introduced into this country from China. Sir John Hawkins, who edited Izaak Walton's "Compleat Angler" wrote in 1760; "There has also been lately brought hither from China, those beautiful creatures gold and silver fish. These fish are usually kept in ponds and small reservoirs of water, to which they are a delightful ornament, and I have known a few of them kept for years in a large glass vessel like a punch bowl" (A goldfish bowl?)

By 1784, in a foot note to the fourth edition he is able to write " it is now a very common practice to keep them in a large glass vessel like a punch bowl."

Two years earlier the Reverent Gilbert White, the famous author of "The Natural History of Selbourne", also refers to the keeping of goldfish in bowls. "when I happen to visit a family where gold and silver fishes are kept in a glass bowl, I am always pleased with the occurrence", because it offers me an opportunity of observing the activities and propensities of these beings with who we can be little acquainted in their natural state",

Thus it was some time in the second half of the eighteenth century that the goldfish bowl became established as a common household ornament in Britain..

At this time, and for another seventy years or more, the only fish that were kept in bowls were freshwater fish and that they survived was due to good fortune and their inherent toughness rather than to any understanding of their needs.

It was not until the 1850's that the first attempts were made to keep fishes in tanks, with results far beyond what the pioneers could possibly have imagined.

(To be continued).

EYE SPOT

by R.D. Orford.

I have a problem in my fish house and it is that I have not enough air to drive all the filters on my tanks, It's not that I haven't enough pumps, I have, but I can't get the air produced to the filters. This is because of friction.

Did you know that the air-line tubing that you get from your aquarist shop is restricting your pump outlet, now, before you go rushing back to your retailer to "garrote" him with the air-line that you bought yesterday, let me explain !

Air-line comes in rather small sizes $\frac{1}{8}$ to $\frac{3}{16}$ of an inch bore, pushing air through this line is like trying to use it for your garden water hose and the longer it is the worse it gets. For every ten feet of air-line you loose at least one pound per square inch pressure, with say a Rena 100 this is about a 50% loss. Now this is far too much, but there is a way to get this loss down to a minimum and that is to use an air header, also as a bonus the system that I am about to tell you about will look a lot neater.

For the sake of convenience I will assume that five two foot tanks have to be fed with air. You will need nine feet of plastic water pipe, this is not garden hose but the ridged pipe you get from builders merchants, size 3 or 1 inch will be O.K.. . Get two end stops and two pipe clips and lastly some plastic weld adhesive.

Weld the end stops onto the open ends of the pipe and put clips on the wall or whatever, clip pipe into place mark

The Broadway Pet Stores



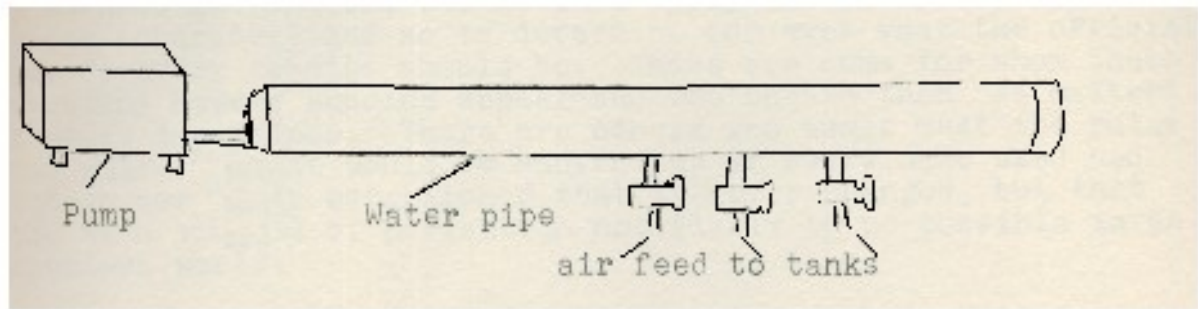
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pipe where you want the normal air-line to come from, remove and drill the pipe with a drill the same size as your normal air-line. Now you can either weld in stubs or you can stick the valves in instead. With this system you should get the best out of your air-pump as now you have only a third of the small bore air-line to push through,

In fish houses this system can be made into a ring circuit with a pump at each end,



WHAT'S IN A NAME ?

by D.W. Roberts F.Z.S.

One of the chief differences between the natural history of today and that of twenty-five years ago is the ready acceptance of the scientific names that biologists give to all species of plants, animals, birds, and fishes. Animals such as the spiders which have never received popular names, and are so little studied, cannot be described by any other but their zoological titles.

It is, of course, essential for precise work that every creature should have its correct name universally recognized and accepted, or otherwise confusion must arise. The binomial nomenclature aims at avoiding this, and an elaborate set of international rules helps in choosing the correct name. Such rules have to be made because we must know the name of an animal before we can begin to search for the information already available about it in Zoological books and journals, and it is obvious that unless this can be done every Zoologist may repeat the work of his predecessors. The fact that one does so often repeat the work of others, either because the literature is not available or because of ignorance or laziness one does not use it properly, only increases the justification for the question that instinctively arises whenever one sees an unfamiliar animal — "What is it called?".

All this is very true, but there is another side to the question. When once a fish with stripes has been dubbed the Zebra fish, no one is likely to want to change it, and undoubtedly this particular fish will be known to aquarists by the same name for all time. But this is not true of the binomial nomenclature as produced by the international rules. These rules have been described, in sorrow and in anger, by many different adjectives, but "fool-proof" was never one of them, and the familiar fact remains that nearly all the old friends of our youth have been re-christened, some of them more than once, in the last two or three decades. These changes have always been made by earnest zoologists, who seek to apply the international system accurately and so to determine for ever what the official name of every species should be. There are some for whom these questions have a genuine appeal and who regard them as matters of great importance. There are others who admit that the rules mean well, that it would be convenient if every name used had been so correctly established that it never changed, but that this is a council of perfection not likely to be possible in an imperfect world.

One may feel, in fact, that whether a fish is called a Top Minnow or *Gambusia holbrooki* or *Heterandria formosa*, one will know it when one sees it; but of course this is very reprehensible and no one should confess to such a view unless his tongue is very conspicuously in his cheek.

The consequence is that most animals have several names, one of these only is correct the rest are synonyma. Synonyma arise either when a species is described as new because the describer was unaware that it had already been discovered, or when a species is assigned by its original author to the wrong genus or when its original genus is broken up into several genera.

All, these things, and others happen so often that there are few animals which do not trail behind them a list of several, and sometimes of many synonyma, evidence of misguided enthusiasm in the past,

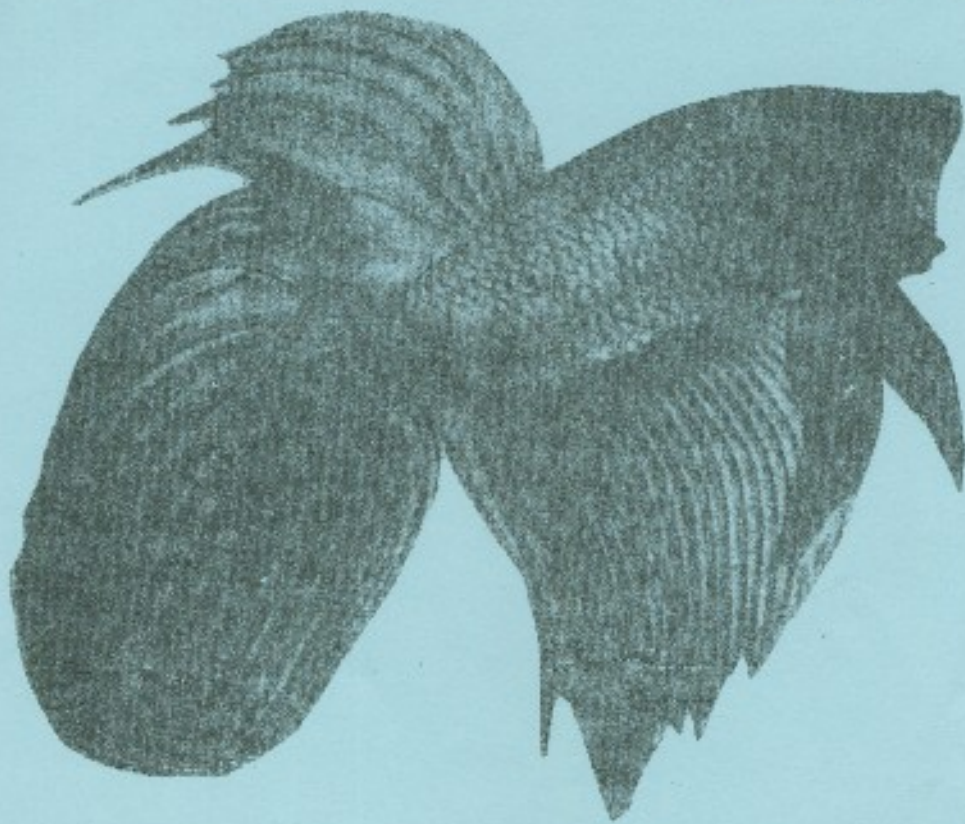
PETFISH SHOW

The Aquarium Show will take place this year on October 29 to November 1 at the Royal Horticultural Society Old Hall, Vincent Square, London, S.W.1. S.L.A.D.A.S. will again be putting on a tableaux. Any member wishing to give assistance should contact Terry Russel. We understand Terry particularly needs plants for the furnished tanks.

S.L.A.D.A.S. OPEN SHOW 1971

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CLUB NEWS

Meeting July 7

This evening was intended to have been a film show but it didn't quite work out that way, instead we had a mixed slide show of some of our extensive library of slides, particularly those that we do not often see. The commentary was given by Dave Edwards. We also had a short talk on building a fish shed by Dave Cheswright, complete with slides.

The raffle was won by:-

Peter Capon.....Thermos jug.
Ray Duke ..,.....pair of Bronze, catfish
Mrs Coe.....,.....Potted plan

Meeting July 21

Table Shows

CHARACINS

1...T..Clark
2...T..Clark.
3,..Mrs E.J..Parker.
4...A..Chapman.

MOLLIES

1.. .K. Lane
2...D. Coe.
3...R. Passmore.
4...B. Burlton.

These two classes were judged by Ed Niccol from Thurrock, who tried to get the judge of the junior table show, your editor, to swap classes with him. Something about him having two tables groaning with jars and tanks whilst your editor only had half-a-dozen jars to judge.

JUNIORS. GUPPY & MOLLY

1,....M. Chapman.
2.....M. Chapman.
3.....D. Victor.
4.●●C. Cheswright.

In addition to the table shows we had a talk by our ex-President John Mason on ponds and coldwatwr fish. One important point that John raised was the danger of introducing wild fish into tanks and ponds and the troubles that can follow.

The raffle was won by.-

Christopher Cheswright....30/- voucher to be spent with our advertisers
Tony Brown.Tetramin.
Norman Sellers.....Outside thermometer

Meeting August 4

This evening we were treated to a talk; on diseases and cures by Mr Tomkins of Freelance A/S. The most important point that he made was that prevention of disease by way of quarantine and suitable water conditions in the aquarium were the first line of defense against disease. He suggested that plants should be sterilized by immersion in a detergent solution and then washed before being put into the aquarium.

Your editor is not particularly keen on the idea of detergents finding their way into the aquarium in even the smallest concentrations.

The raffle was won by:- Mr Bruce.....siphon.
A.Staplesheater.
P.F.Capon..... pair Dwarf gouramis

TABLE SHOWS

COLDWATER

- 1...T. Clark.
- 2...T .Clark.
3. T. Russel
- 4.. .L. Mitchell

PAIRS

- 1...M.J.Rodgers.....*filamentosa*
- 2.. .K. Adamsdwarf gouramis
- 3 ...K. Lane.....guppies
- 4.. .K.Adams*marginatus* , pencils

Mrs Clark and Mrs Chapman took over the unenviable job of making the refreshments from Ted and Ray Bloxham to enable them to listen to the talk, for a change.

Meeting August 12

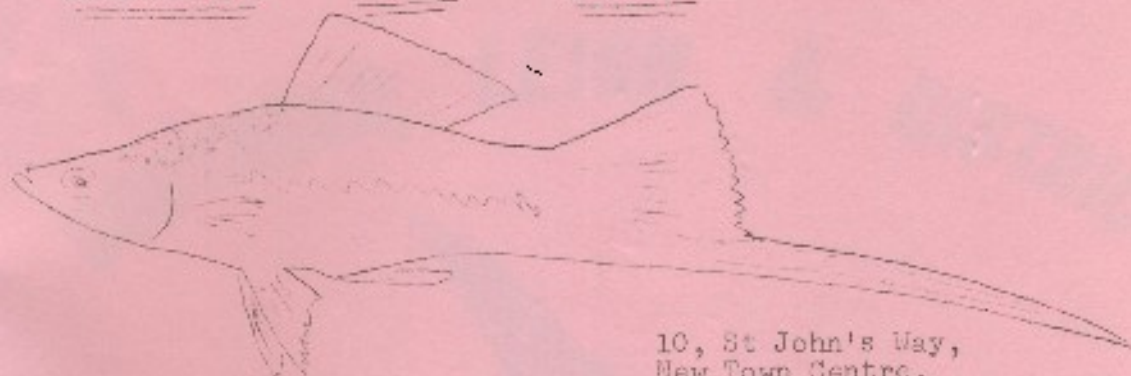
Table Show Female Livebearers

- 1...A. Staples.....*velifera*.
- 2....R.D..Or ford.....*sunset variatus*.
3. . G.Coe.....*albino velifera*.
- 4....D. Max.....

Don Finch judged this table show.

The talk on livebearers was given by Alan Chapman and Dave Edwards.

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Eddie

The raffle prizes went to:-

T.Russel.....pair of guppies.
W. G.Russel.....pair of guppies.
Mr Hamilton.....plants.
Mr Pellier.....pair of guppies.
... D.Cheswright.....car mats.

Meeting September 1

Our guest speaker this evening was George Yallop from Maldon, from Maldon at the moment but knowing George and his insatiable 'wanderlust' he could by now be somewhere warmer and with, more fishes than Maldon. George told of seeing fishes in their natural waters, of getting his 1933 Riley up to it's axels in river mud in central India, but it is impossible to retell George's adventures and do them justice. We suggest that members who missed his talk make sure they hear him another time-

The raffle prizes were won by;-

Chris Finch.....pair *Bedotia gayi*
M.Chapman,.....two ash trays.
G. Coe.....bag of small water lettuce.
George Yallop.....bag large water lettuce.

Table Show Any Species

1...D. Little.....*thomasi*
2....K. Adamscardinal
3...T. Clark.....*trimarginatus*, pencil
4...D. Morrischola barb.

Table Show. Marines.

1...R.D. Orford.....pipe fish
2...R.D. Orford.....blue damsel

Junior Characins

1...M. Chapman.
2...D. Victor.
3.♦.M. Chapman.

The junior table show was judged by Nobby dark, and the Marines and A.S. by Brian Dunn.

Bob Orford voiced his disappointment at having had no opposition whatsoever, asking where were all the Monos and Scats that he knew were in the club. Let's make sure Bob doesn't win this table show next year, give him some real competition!

TABLE SHOW POSITIONS (as of Sept 1)

T. Clark.....	32 points	A. Russel.....	5 points
R.D. Orford .	25 points	C. Finch.....	5 points
B. Dunn.....	22 points	R. Nield.....	5 points
D. Edwards.....	22 points	A. Staples.....	4 points
D. Little.....	20 points	A. Chapman.....	4 points
K. Adams	19 points	J. Edwards.....	4 points
M. Upton	17 points	L. Mitchell.....	3 points
H. Dunmow. ..	12 points	R.B. Carrier.....	3 points
P.F. Capon.	12 points	Mrs E. Parker.....	2 points
K. Lane	10 points	D. Morris.....	1 point
R. Passmore	9 points	D. Max.....	1 point
M.J. Rodgers....	8 points	B. Burlton.....	1 point
R. Wallings	7 points	D. Yolk.....	1 point
E. BLoxham	7 points	D. Chapman.....	1 point
D. Cheswright	6 points	B. Mitchell.....	1 point
T. Russel	6 points	D. Finch.....	1 point
G. Coe.....	5 points	R.Cope.....	
.....	3 points		

Members are reminded that the winner of the highest points -will be awarded our new memorial trophy to the late Stan Halsey. Points are also awarded for Inter-club competition wins in addition to our own table shows.

Junior Table Shows

M. Chapman.....	17 points
F. Victor.....	12 points
I. King.....	7 points
C. Cheswright.....	1 point

COMMITTEE MEETINGS

Meeting held at 58, Leighcliff Road, Leigh, on June 30, present were:- President .,Treasurer-, Secretary, Don Finch, Bob Orford, Alan Chapman, Steve Norris, Ray Bloxham, R. Passmore, Lawrence Mitchell, Peter Capon, and visitor Terry Russel, with apologies from Ray Nield.

The President opened the meeting by expressing condolences to the family of the late Stan Halsey, a former President and one who had the club's interests at heart.

Bob Orford stated the the Windermere Perpetual Trophy for the best Marine in the Open show had been recovered but it had sustained a certain amount of damage because it had been kept in a salt water fish house. The treasurer reported that the Open Show 1970 showed a surplus of £10/10/2.

Under any other business Peter Capon suggested that the

club should acquire a Stan Halsey Memorial Trophy, after some discussion it -was decided to award the trophy for the highest points in the table shows. The existing trophy for this the Abbott Cup to be awarded for the highest points in the Junior table shows. The secretary was request to make a provisional booking for a coach to the Aquarist Show at Alexandra Palace, with the hope that members would show sufficient interest to fill it. A suggestion from Mr Brian Dunn that raffle tickets should be sold at 2/" each was turned down owing to the popularity of the present system. Don Finch raised the matter of the Visiting Speaker for the meeting of September 1. R.Orford was authorized to purchase a substantial amount of paper for the JOURNAL, the secretary was authorized to purchase a ream of copy paper. Alan Chapman reported that many junior members \ had asked if there were any more show jars for sale, R. Orford and S. Norris agreed to visit the offices of PetFish to purchase some. S. Norris suggested that a welcome drink should be supplied free at the Social, the date for the Social was changed to Saturday December 12, Bob .Orford agreed to take over arrangements for the evening. A discussion ensued on the talking between members whilst lectures were in progress, the committee decided to arrange for discussion groups for at least one evening, and if the idea proved popular to include, more in the program.

The President stated that he had heard from America of a book which would be an asset to our library.

The visitor to the meeting said that he had been surprised at the amount of business and constructive discussion that went on at a committee meeting, and that he was sure that many members were not aware of all the hard work that committee members did for the sake of the club. The meeting closed at 11.25 pm.

Committee meeting 28th July at 12 St Edmonds Close Thorpe Bay. present were .-President, Treasurer, Secretary, Don Finch, Lawrence Mitchell, Steve Norris, Alan Chapman, Peter Capon, and Ray Bloxham. Appologies from Ted Bloxham, Bob Passmore, Bob Orford, and Ray Nield.

The President and Treasurer agreed to arrange the purchase of the Stan Halsey Memorial. With regard to the shortage of show jars the Treasurer stated that the proprietor of a local aquarist shop could probably assist us. Steve Norris suggested that members of other local societies might be invited to our social but this was considered impractical. The treasurer stated that Norman Sellers was unable, owing to pressure of business, to give a definite date for the presentation of his lecture on Marines. Ray Bloxham. questioned the lack of attendance of the librarian,; it was agreed that should he be unable to attend the present Assistant (L. Mitchell) should fill the post and a new Assistant be co-opted. Terry Russel was suggested for this post. Don Finch welcomed the appearance of a President's page in the JOURNAL. There was a query on the lack of photo's of the Open Show in the Journal and it was stated that the

quality of prints was not quite suitable for reproduction. Alan Chapman volunteered to take photos of future Inter-club meetings for use in the JOURNAL. The President told of Ed Niccol's comments on the good turn-out for our table shows. Ray Bloxham said that he was disturbed at the amount of talking in the hail during lectures. Peter Capon suggested that the Japanese Embassy might be able to furnish films.

The meeting closed at 10.45 pm.

S.L.A.D.A.S. POSITION IN INTER-CLUB COMPETITION.

Thurrock 42 points, Southend 41 points, East London 25 points, Billericay 5 points.

As you can see we are running neck and neck with Thurrock. There is just one more round to go this will be held at Billericay in October, the classes are A.O.8S tropical, Coldwater, Mollies and Characins. Come on S.L.A.D.A.S. let's see if we can hang on to that Gavel and Block trophy for another year !



TED JESSOP

We are deeply sorry to have to inform our readers that A.G. Jessop, "TED" to all aquarists, passed away on the 14 th of July after a heart attack.

Ted was Vice Chairman of the Federation of British Aquarist Societies from December 1963 until December 1967 when he became Chairman.

He will be particularly missed by S.L.A.D.A.S. Who met him regularly at the Inter-club competitions. He was always a fair and very able judge, always willing to discuss fish with the competitors.

We are sorry that such a genial aquarist should have to leave us.

